

TC-K561S/KA1ES

SERVICE MANUAL

*US Model
TC-KA1ES*

AEP Model

UK Model

Australian Model

E Model

TC-K561S



Photo : TC-K561S

* Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

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Model Name	Using Similar Mechanism	TC-K411/K511S
Tape Transport Mechanism Type		TCM-190VB14

SPECIFICATIONS

Recording system	4-track 2-channel stereo		
Fast winding time	Approx. 90 sec. (with Sony C-60 cassette)		
Bias	AC bias		
Heads	Erasing head \times 1 (S&F head) Recording head \times 1 (SD head) Playback head \times 1 (SD head)		
Motors	Capstan motor \times 1 (DC servo motor) Reel motor \times 1 (DC motor)		
Signal-to-noise ratio (at peak level and weighted)			
Cassette (Dolby NR off)	Type IV	Type II	Type I
	61 dB	59 dB	57 dB

S/N ratio improvement (approximate values).

With Dolby B NR on: 5 dB at 1 kHz; 10 dB at 5 kHz

With Dolby C NR on: 15 dB at 500 Hz; 20 dB at 1 kHz

With Dolby S NR on: 10 dB at 100 Hz; 24 dB at 1 kHz

Harmonic distortion	0.4% (with Type I, 160 nWb/m 315 Hz, 3rd H.D.) 1.5% (with Type IV, 250 nWb/m 315 Hz, 3rd H.D.)
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Frequency response (Dolby NR off)

Type IV cassette	30 - 19,000 Hz (± 3 dB, IEC) 30 - 16,000 Hz [± 3 dB (-4 dB recording)]
Type II cassette	30 - 18,000 Hz (± 3 dB, IEC)
Type I cassette	30 - 17,000 Hz (± 3 dB, IEC)

Type IV : Sony Type IV (METAL)

Type II : Sony Type II (HIGH)

Type I : Sony Type I (NORMAL)

Wow and flutter	$\pm 0.085\%$ W.Peak (IEC) 0.055% W.RMS (NAB) $\pm 0.16\%$ W.Peak (DIN)
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Inputs		
Line inputs (phono jacks)	Sensitivity	0.16 V
	Input impedance	47 k ohms

Outputs		
Line outputs (phono jacks)	Rated output level	0.5 V at a load impedance of 47 k ohms
	Load impedance	Over 10 k ohms
Headphones (stereo phone jack)	Output level	1 mW at a load impedance of 32 ohms

General

Power requirements

US model :

120 V AC, 60 Hz

AEP, German model :

220 - 230 V AC, 50/60 Hz

UK, Australian model :

240 V AC, 50/60 Hz

E model :

120, 220 or 240 V AC
adjustable, 50/60 Hz

23 W

Approx. 430 x 123 x 310 mm (w/h/d)
including projecting parts and controls

Mass Approx. 4.2 kg

Supplied accessories

Audio connecting cords (2)

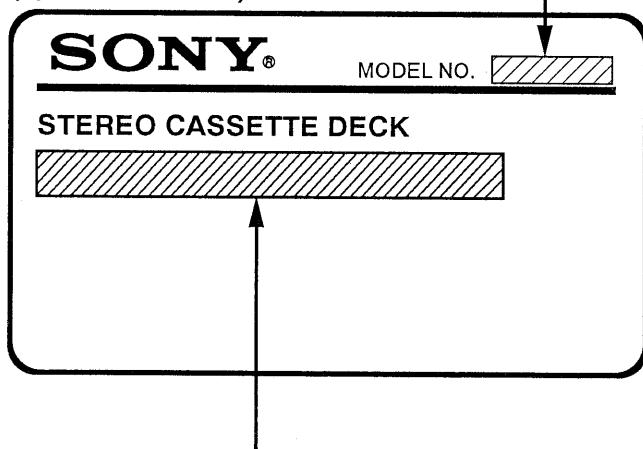
Design and specifications are subject to change without notice.

STEREO CASSETTE DECK
SONY®

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MODEL IDENTIFICATION
(Specification Label)



US model : AC 120V~60Hz
 AEP, German model : AC 220-230V~50/60Hz
 UK, Australian model : AC 240V~50/60Hz
 E model : AC 120, 220 or 240V
 adjustable~50/60Hz

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

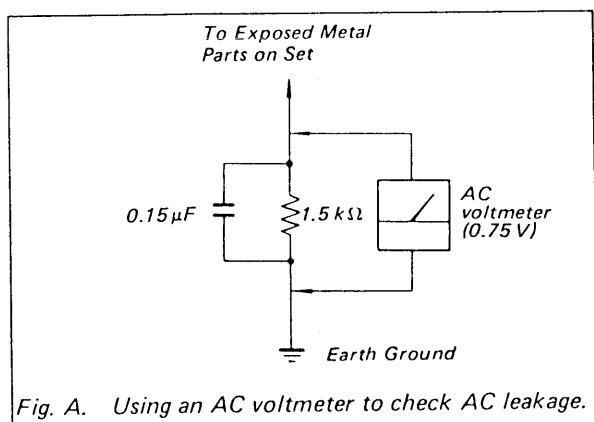
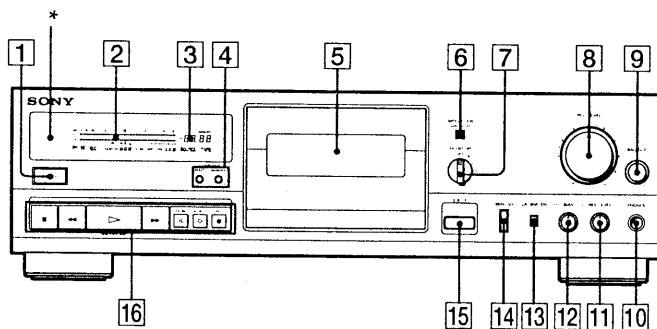


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1 GENERAL

This section is extracted from instruction manual.

Identifying the Parts on the Front Panel



- [1] POWER switch
- [2] Peak level meters
- [3] Linear counter
- [4] COUNTER buttons
 - RESET button
 - MEMORY button
- [5] Cassette holder
- [6] MPX FILTER button
- [7] DOLBY NR (noise reduction) switch
- [8] REC (recording) LEVEL control
- [9] BALANCE control
- [10] PHONES jack (stereo phone jack)
- [11] REC (recording) LEVEL control for calibration
- [12] BIAS control
- [13] CALIBRATION button
- [14] MONITOR button
- [15] ▲ (EJECT) button
- [16] Tape operation buttons
 - (stop) button
 - ◀◀ (rewind) (Multi-AMS**) button
 - ▷ (play) button
 - ▶▶ (fast-forward) (Multi-AMS**) button
 - ▷▷ PAUSE button
 - REC MUTE (record muting) button (42)
 - REC (recording) button

* Remote control sensor

You can remotely control this cassette deck with:

- A remote commander that came with a Sony amplifier or receiver if it has the  mark and cassette deck control capability.
- An optional Sony remote commander with the  mark and cassette deck control capability.

** AMS is an abbreviation for Automatic Music Sensor.

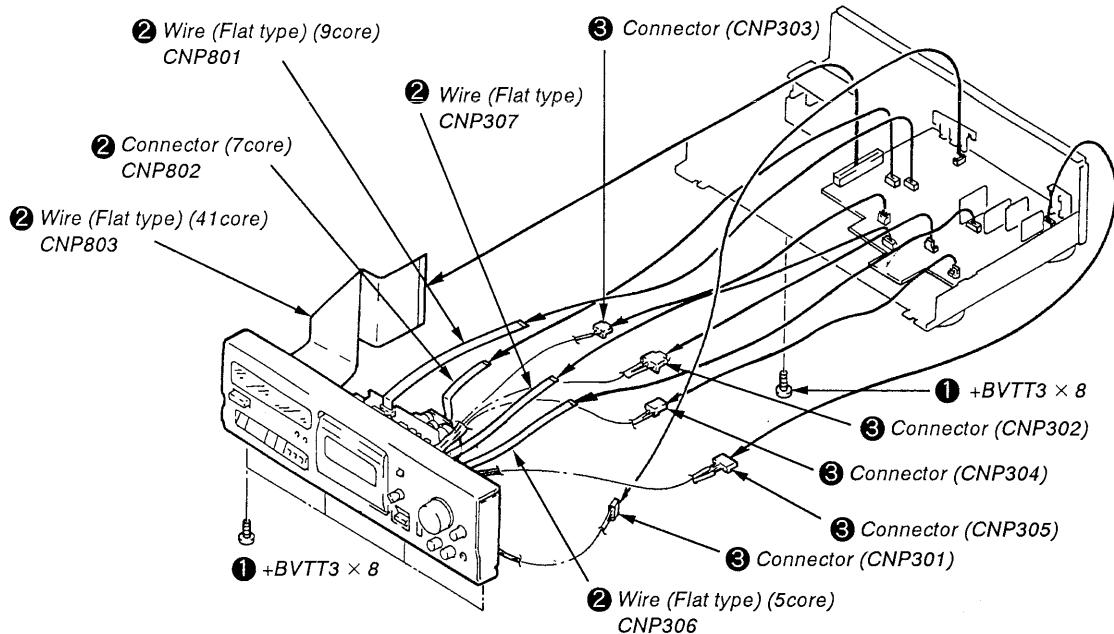
SECTION 2 DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

CASE

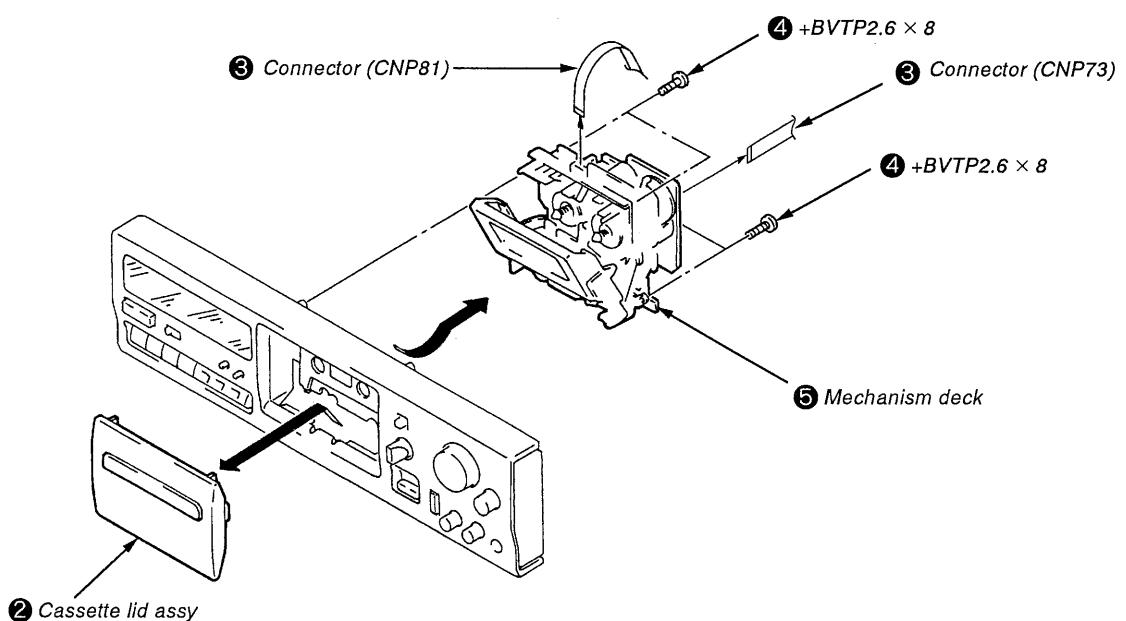
Unscrew the four case attachment screws M3 × 8 and remove the case.

2-1. FRONT PANEL

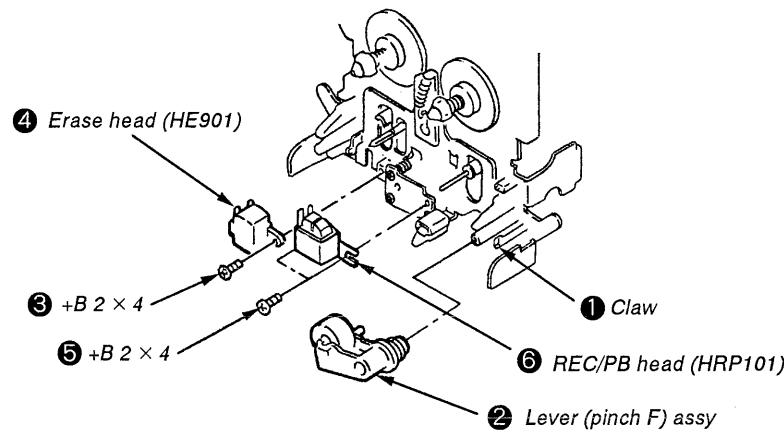


2-2. MECHANISM DECK

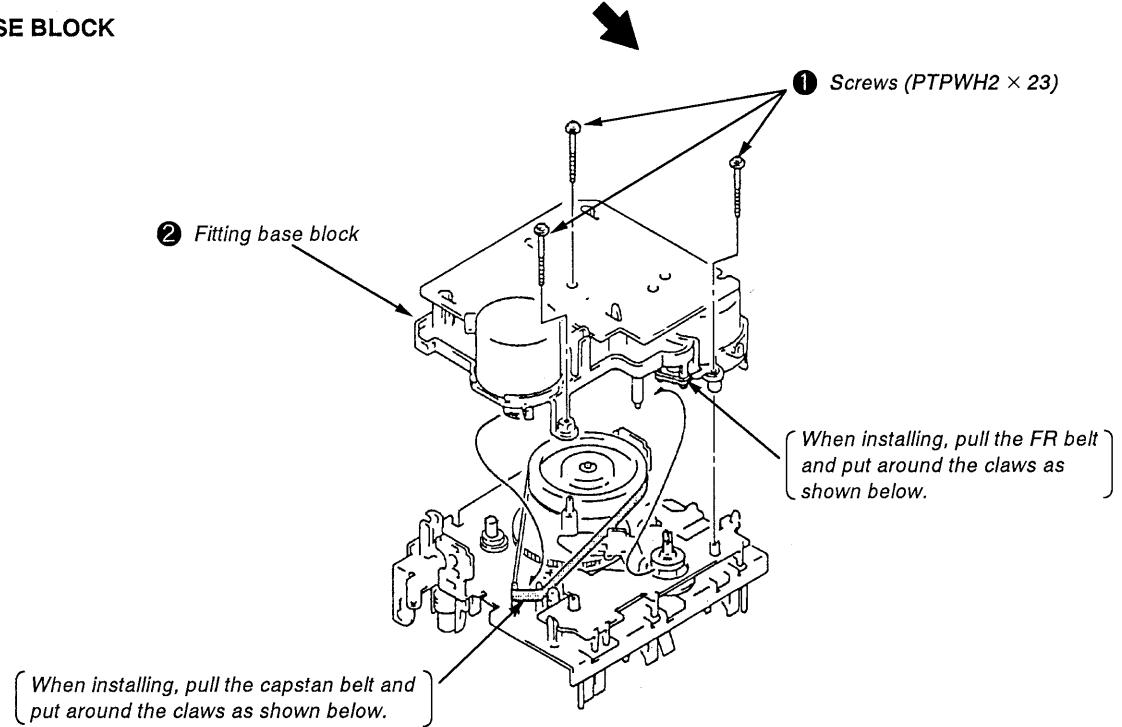
① Press the eject button.



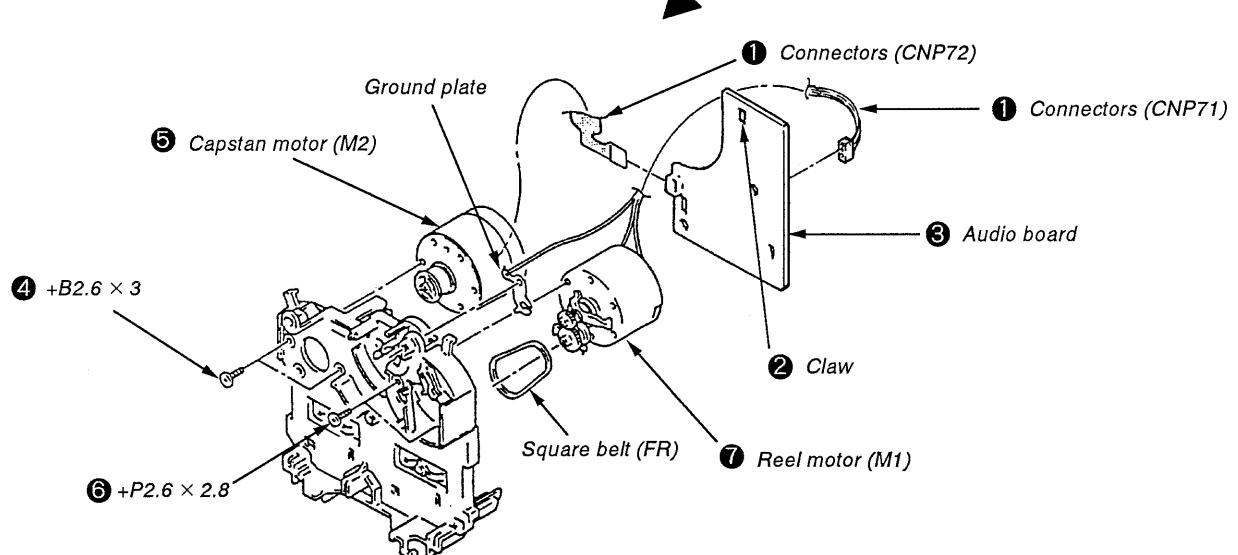
2-3. HEAD



2-4. FITTING BASE BLOCK



2-5. MOTOR



SECTION 3 ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured alcohol-moistened swab:

record/playback/erase head	pinch roller
rubber belts	capstan
idle	
2. Demagnetize the record/playback head with a head demagnetizer. (Head demagnetizer do not approach for the erase head.)
3. Do not use a magnetized screwdriver for the adjustment.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
Forward	CQ-102C	30 to 65g·cm (0.42 to 0.90 oz·inch)
Forward back tension	CQ-102C	1 to 6g·cm (0.014 to 0.08 oz·inch)
FF/REW	CQ-201B	70 to 120g·cm (0.98 to 1.66 oz·inch)

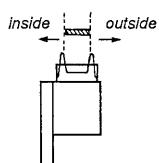
Record/Playback Head Height/Declination Adjustment

Procedures :

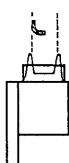
1. Test cassette : CQ-009C
2. Insert the mirror cassette and put the unit in record/Playback mode.

1) Height Adjustment :

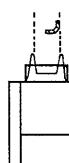
Check to see if the tape is curling at the tape guide of the head. If it is curling, tighten screws **A**, **B** and **C**, respectively by the same angle, moving the head so that it remains at the same angle throughout the procedure. If it curls on the bottom side of the mirror cassette (actually the inner side), tighten all the screws equally; but loosen them if the tape begins to curl on the top side (outer side).



Normal
(Record/playback head
as seen from the side
of the erasehead.)



Curling on the inner
side
Tighten screws **A**, **B**
and **C**.



Curling on the outer
side
Loosen screws **A**, **B**
and **C**.

2) Declination Adjustment :

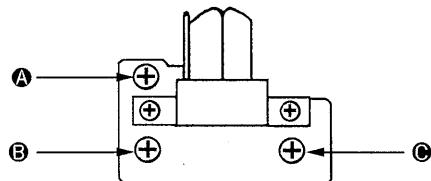
While in the record/playback position, set the back tension to 0 (wind the supply reel with something thin like a pencil in a counterclockwise direction) and make sure there is no curling or shifting (shifting up/shifting down) at the guide of the record/playback head.

Because shifting can only occur due to a difference in the width of the tape and that of the tape guides (curling will otherwise occur), it is necessary to pay close attention since it can be easily overlooked.

When there is a shift, tighten screws **B** and **C** equally and change the declination of the head. If the tape is shifting up, tighten the screws, and if it is shifting down, loosen them.

Repeat the adjustments in steps 1) to 2) and fine adjust the height and the declination.

Adjustment Location : — record/playback head —

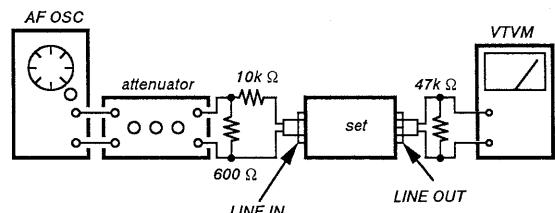


3-2. ELECTRICAL ADJUSTMENTS

PRECAUTION

1. The adjustment should be performed in the publication. (Be sure to make playback adjustment at first.)
2. The adjustments and measurement should be performed for both L-CH and R-CH.
 - Switch position
DOLBY NR switch : OFF
 - Standard record position:
Deliver the standard input signal level to input jack and set the REC LEVEL control to obtain the standard output signal level as follows.

— Record Mode —



Standard Input Level

Input terminal	LINE IN
source impedance	10k Ω
input signal level	0.5V (-3.8dB)

Standard Output Level

Output terminal	LINE OUT
load impedance	47k Ω
output signal level	0.5V (-3.8dB)

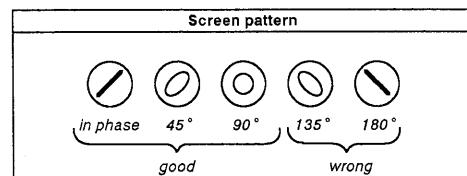
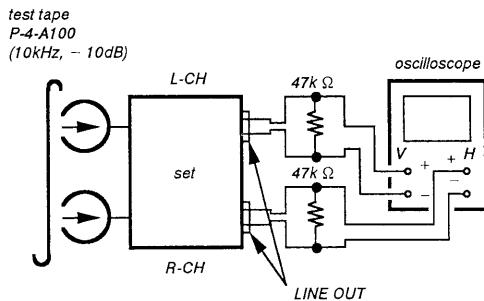
Test Tape

Tape	Contents	Use
P-4-A100	10kHz, -10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

0dB=0.775V

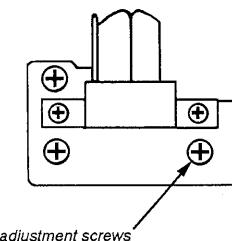
3. Phase check

Playback Mode



- After the adjustment, lock the adjustment screws with suitable locking compound.

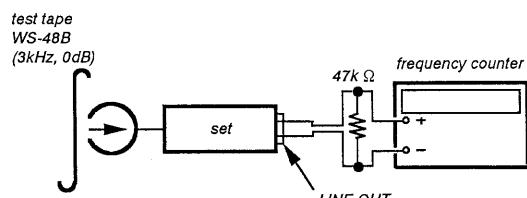
Adjustment Location : – record/playback head –



Tape Speed Adjustment

Procedure :

- Forward Playback Mode –

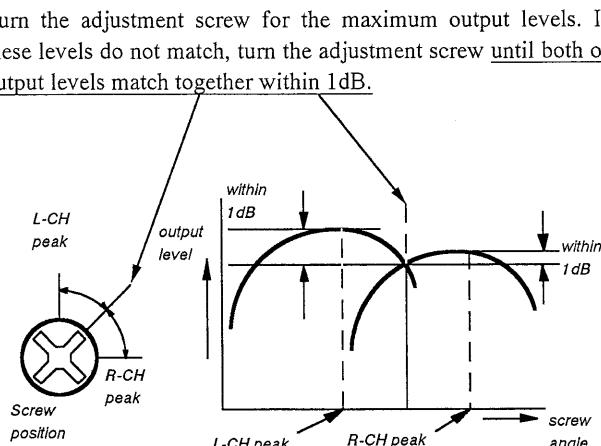


- Set to FWD playback mode.

- Adjust RV71 so that the frequency counter reading becomes $3,000 \pm 15\text{Hz}$.

Frequency difference between the beginning and the end of the tape should be within 3%.

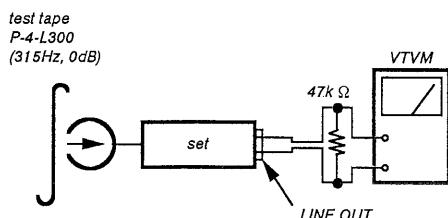
Adjustment Location : AUDIO board (Page 10)



Playback Level Adjustment

Procedure :

– Forward Playback Mode –



Adjust RV121 (L-CH) and RV221 (R-CH) so the VTVM reading becomes the adjustment limits below.

Adjustment Value :

LINE OUT level : $-7.7 \pm 0.5\text{dB}$ (0.301 to 0.338V)

Level difference between channels : within 0.5dB

Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times

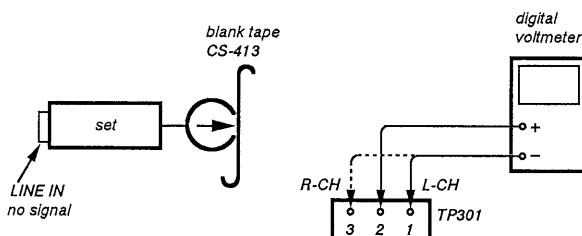
Adjustment Location : MAIN board (Page 10)

Bias Consumption Current Adjustment

This adjustment should be performed when replacing the head assy or the bias oscillating transformer (T101, T201).

Procedure :

() : R-CH



1. Connect the digital voltmeter to test point TP301.
2. Set RV103 (RV203) to mechanical center.
3. Set to FWD record mode.
4. Adjust T101 (T201) so that the digital voltmeter reading becomes minimum.

Adjustment Location : MAIN board (Page 10)

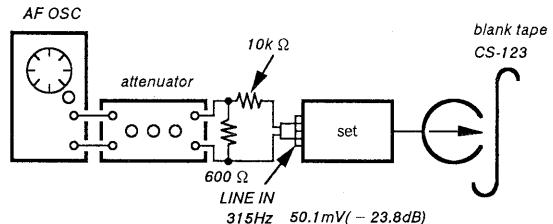
Record Level Adjustment

Setting :

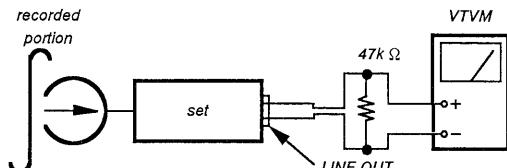
REC LEVEL control : standard record position (Refer to page 7.)

Procedure :

1. Record Mode



2. Playback Mode



Confirm playback the tape recorded become adjustment level as follows.

If necessary, adjust RV101 (L-CH), RV201 (R-CH) and repeat the steps 1 and 2.

Adjustment Value :

LINE OUT level : $-23.8 \pm 0.5\text{dB}$ (47.2 to 53mV)

Adjustment Location : MAIN board (Page 10)

– Adjustment Parts Location Diagrams –

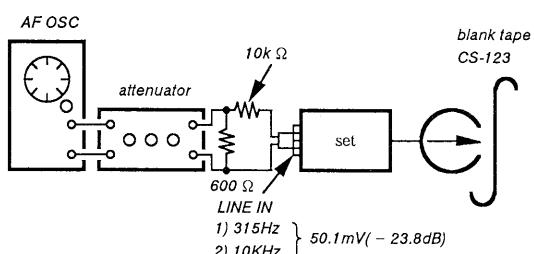
Record Bias Adjustment

Setting :

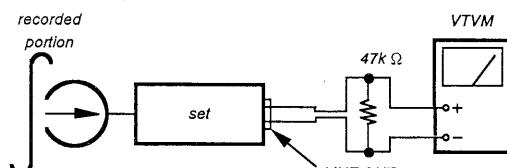
REC LEVEL control : standard record position (Refer to page 7.)

Procedure :

1. Record Mode



2. Playback Mode



Confirm that the 10kHz playback output is $0 \pm 0.3\text{dB}$ relative to the 315Hz output. If necessary, adjust RV103 (L-CH), RV203 (R-CH) and repeat the steps given above.

Adjustment Location : MAIN board

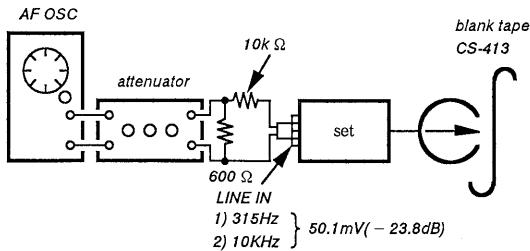
Record EQ (IV) Adjustment

Setting :

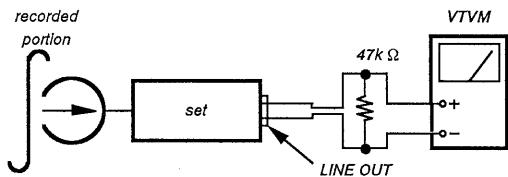
REC LEVEL control : standard record position (Refer to page 7.)

Procedure :

1. Record Mode



2. Playback Mode



1. Adjust RV102 and 202 so that they become maximum.
2. Adjust RV102 (L-CH) and 202(R-CH) so that the difference between R-CH and L-CH at 10 kHz is within 1dB.
3. Adjust RV306 so that the value of R-CH becomes the specified value.

Specified value :

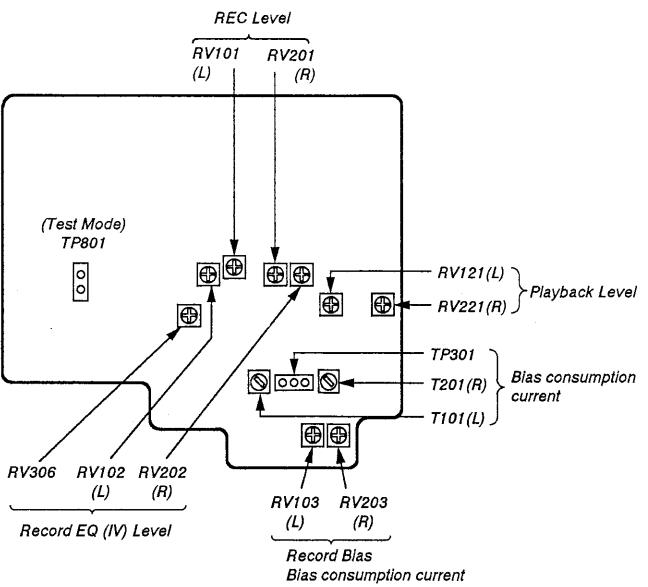
(the level at 10kHz against to 315Hz : $0\text{dB} \pm 1\text{dB}$)

Adjustment Location : MAIN board

— Adjustment Parts Location Diagrams —

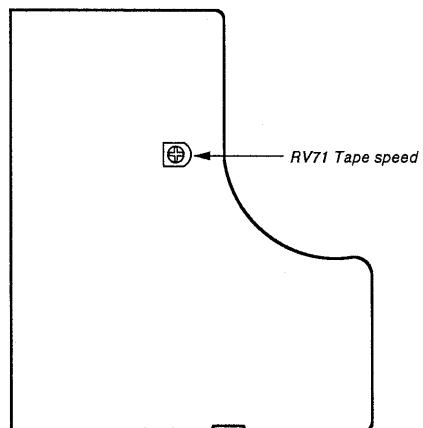
[MAIN BOARD]

(Component Side)



[AUDIO BOARD]

(Component Side)



SECTION 4

EXPLANATION OF IC TERMINALS

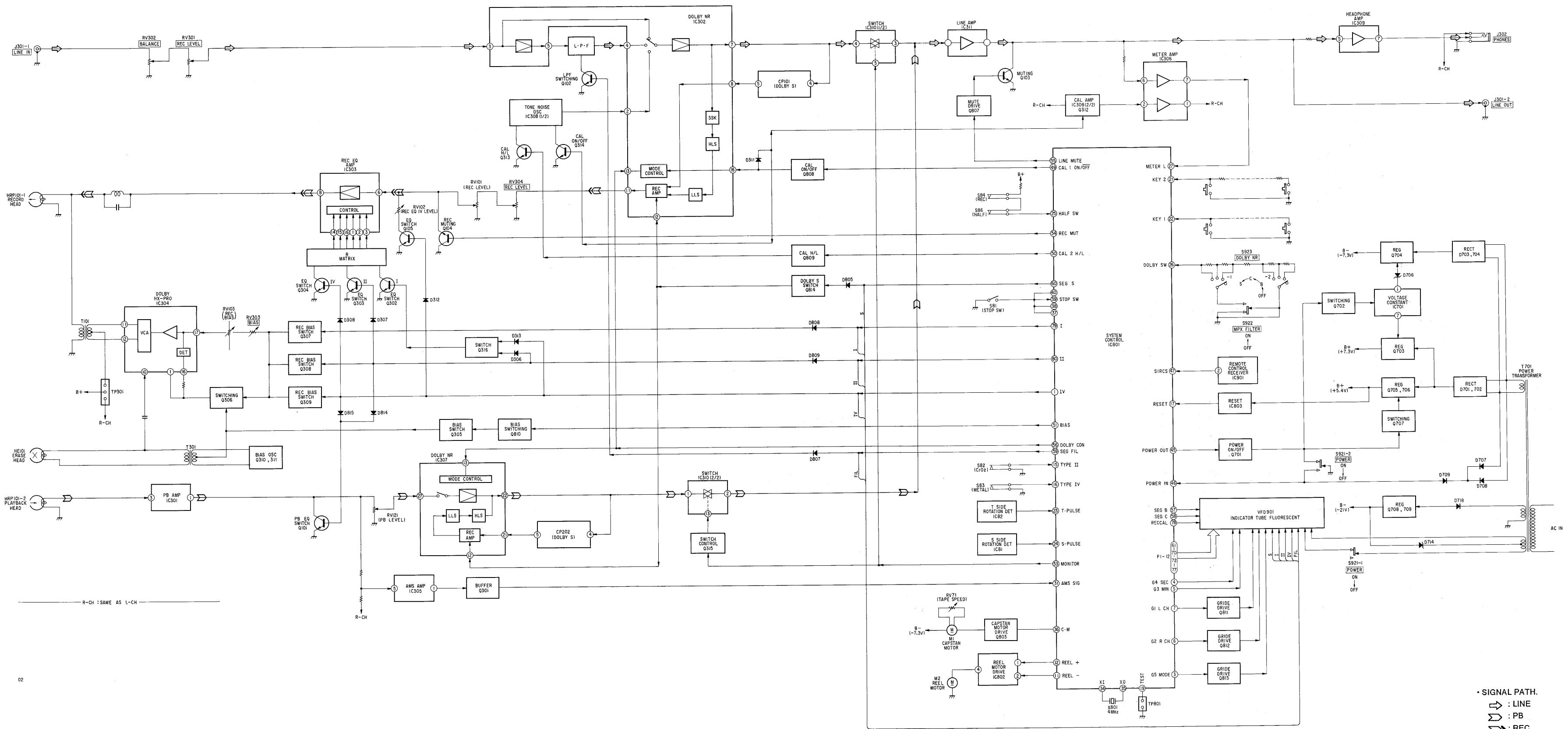
IC801 μ PD78042GF-072-3B9

Pin No.	Pin name	I/O	Description
1	IV	O	BIAS EQ IV control.
2	P25	O	VFD Segment drive.
3	G5-MODE	O	VFD colum mode.
4	G4-SEC	O	VFD colum Sec.
5	G3-MIN	O	VFD colum Min.
6	G2-RCH	O	VFD colum R-CH.
7	G1-LCH	O	VFD colum L-CH.
8	V _{DD}	-	Power supply. (+5V)
9	NC	-	Not used. (OPEN)
10	NC	-	Not used. (OPEN)
11	REEL -	O	Reel motor - output terminal.
12	REEL+	O	Reel motor + output terminal.
13	NC	-	Not used. (OPEN)
14	NC	-	Not used. (OPEN)
15	TYPE • II	I	Type II SW input terminal.
16	TYPE • IV	I	Type IV SW input terminal.
17	RESET	I	System reset terminal.
18	NC	-	Not used. (High level)
19	TEST	I	Test mode terminal. "H" : Normal, "L" : Test mode
20	A _V ss	-	Analog for power supply. (GND)
21	KEY2	I	Key input terminal.
22	KEY1	I	Key input terminal.
23	T • PULSE	I	Take up pulse input terminal.
24	S • PULSE	I	Supply pulse input terminal.
25	HALF-SW	I	Half pawl input terminal.
26	DOLBY SW	I	Dolby SW input terminal.
27	METER-L	I	Meter level L-CH input terminal.
28	METER-R	I	Meter level R-CH input terminal.
29	A _V _{DD}	-	Analog for power supply. (+5V)
30	A _V ref	-	A/D reference voltage. (+5V)
31	AMS-SIG	I	AMS signal input terminal.
32	XT2	-	Not used. (OPEN)
33	V _{ss}	-	Power supply. (GND)
34	XI	I	System clock input terminal.
35	XO	O	System clock output terminal.
36	C • M	O	Capstan motor ON/OFF control. ON=0V
37	NC	-	Not used. (High level)
38	NC	-	Not used. (High level)
39	STOP-SW	I	Mechanism stop switch input terminal.
40	NC	-	Not used. (High level)

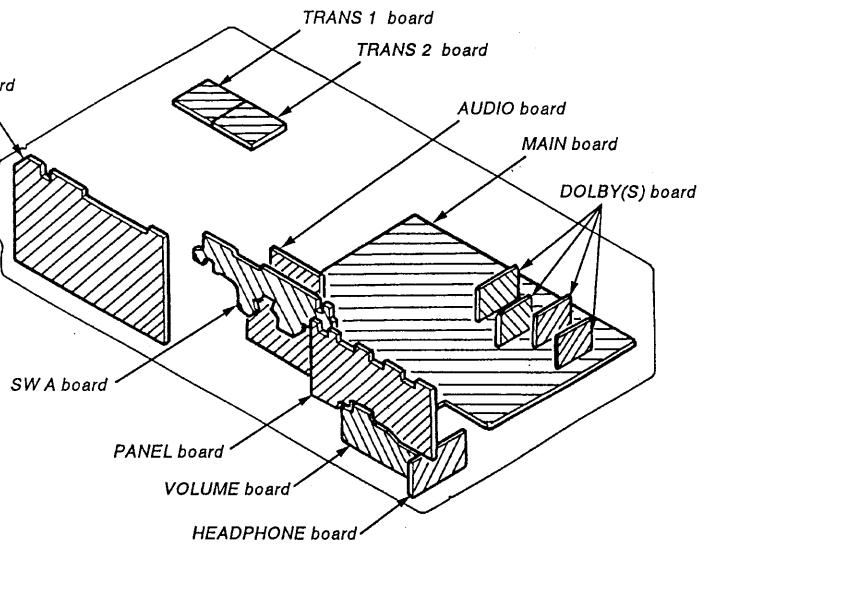
Pin No.	Pin name	I/O	Description
41	NC	—	Not used. (GND)
42	NC	—	Not used. (GND)
43	NC	—	Not used. (OPEN)
44	FLY WHEEL PULSE	—	Not used. (GND)
45	POWER OUT	O	Power ON/OFF control.
46	POWER IN	I	Power OFF. OFF=0V
47	SIRCS	I	SIRCS signal input terminal.
48	IC	—	Not used. (GND)
49	CAL 1 ON/OFF	O	Calibration ON/OFF control terminal.
50	CAL 2 H/L	O	Calibration H/L control terminal.
51	BIAS	O	BIAS ON/OFF control.
52	V _{DD}	—	Power supply. (+5V)
53	MONITER	O	Audio mode select terminal.
54	REC-MUT	O	REC out mute control.
55	LINE-MUT	O	Line mute ON/OFF control terminal.
56	DOLBY CON.	O	Dolby ON/OFF control terminal.
57	SEG B	O	VFD segment drive. (Dolby B)
58	SEG C	O	VFD segment drive. (Dolby C)
59	SEG FIL	O	VFD segment drive. (Filter)
60	SEG S	O	VFD segment drive. (Dolby S)
61	P1	O	VFD segment drive.
62	P2	O	
63	P6	O	
64	P7	O	
65	P3	O	
66	P5	O	
67	P4	O	
68	P8	O	
69	P16	O	VFD segment drive.
70	P9	O	
71	— 21V	—	
72	P10	O	
73	P14	O	
74	P15	O	
75	P11	O	VFD segment drive.
76	P13	O	
77	P12	O	
78	RECCAL	O	
79	I	O	BIAS EQ I control.
80	II	O	BIAS EQ II control.

SECTION 5 DIAGRAMS

5-1. BLOCK DIAGRAM



5-2. CIRCUIT BOARDS LOCATION



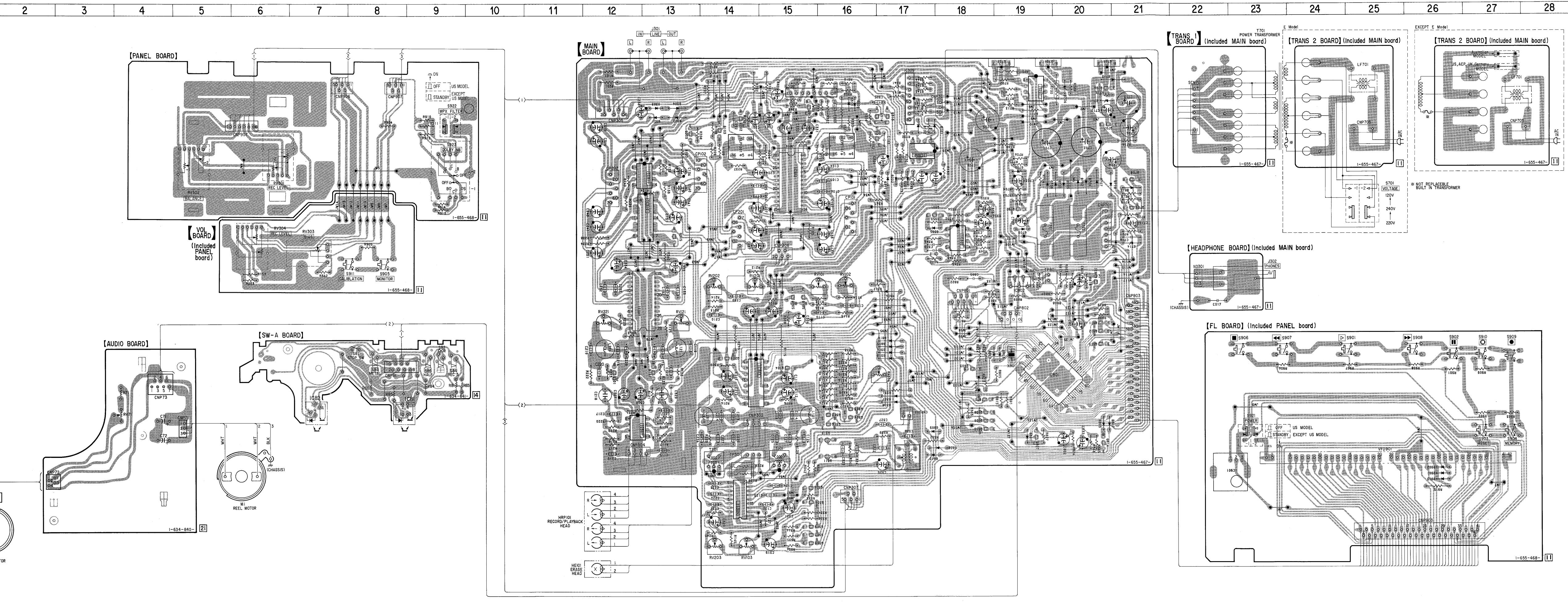
• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	B - 17	D715	C - 21	IC801	G - 19	Q316	G - 16
D102	B - 17	D718	C - 20	IC802	E - 19	Q701	G - 18
D201	C - 17	D801	H - 19	IC803	E - 20	Q702	D - 19
D202	C - 17	D802	F - 18	IC901	H - 23	Q703	A - 19
D301	B - 13	D803	F - 19			Q704	A - 19
D302	B - 13	D805	G - 20	Q101	G - 13	Q705	A - 20
D303	B - 13	D807	G - 20	Q102	C - 16	Q706	B - 20
D304	B - 13	D808	H - 17	Q103	B - 14	Q707	B - 20
D305	D - 17	D809	H - 17	Q104	F - 15	Q708	C - 21
D306	F - 17	D810	H - 17	Q105	E - 15	Q709	D - 21
D307	G - 17	D814	F - 17	Q201	G - 12	Q803	F - 18
D308	G - 17	D815	F - 17	Q202	B - 14	Q807	H - 19
D309	B - 16	D901	H - 26	Q203	B - 13	Q808	G - 18
D310	B - 16	D902	H - 26	Q204	F - 14	Q809	G - 18
D311	C - 17	D903	H - 26	Q205	E - 15	Q810	G - 18
D312	E - 17			Q301	D - 17	Q811	F - 20
D313	F - 17	IC81	G - 8	Q302	G - 16	Q812	F - 20
D701	C - 20			Q303	G - 16	Q813	F - 20
D702	C - 20	IC301	G - 12	Q304	G - 16	Q814	H - 20
D703	C - 20	IC302	C - 15	Q305	H - 15		
D704	C - 20			Q306	I - 15		
D705	C - 19	IC304	I - 14	Q307	I - 15		
D706	B - 20	IC305	D - 18	Q308	I - 15		
D707	C - 20	IC306	C - 17	Q309	I - 15		
D708	C - 19	IC307	E - 12	Q310	H - 16		
D709	D - 19			Q311	H - 16		
D711	B - 20	IC309	B - 17	Q312	B - 15		
D712	B - 20	IC310	D - 13	Q313	B - 17		
D713	D - 21	IC311	C - 13	Q314	B - 17		
D714	D - 21	IC701	B - 19	Q315	D - 13		

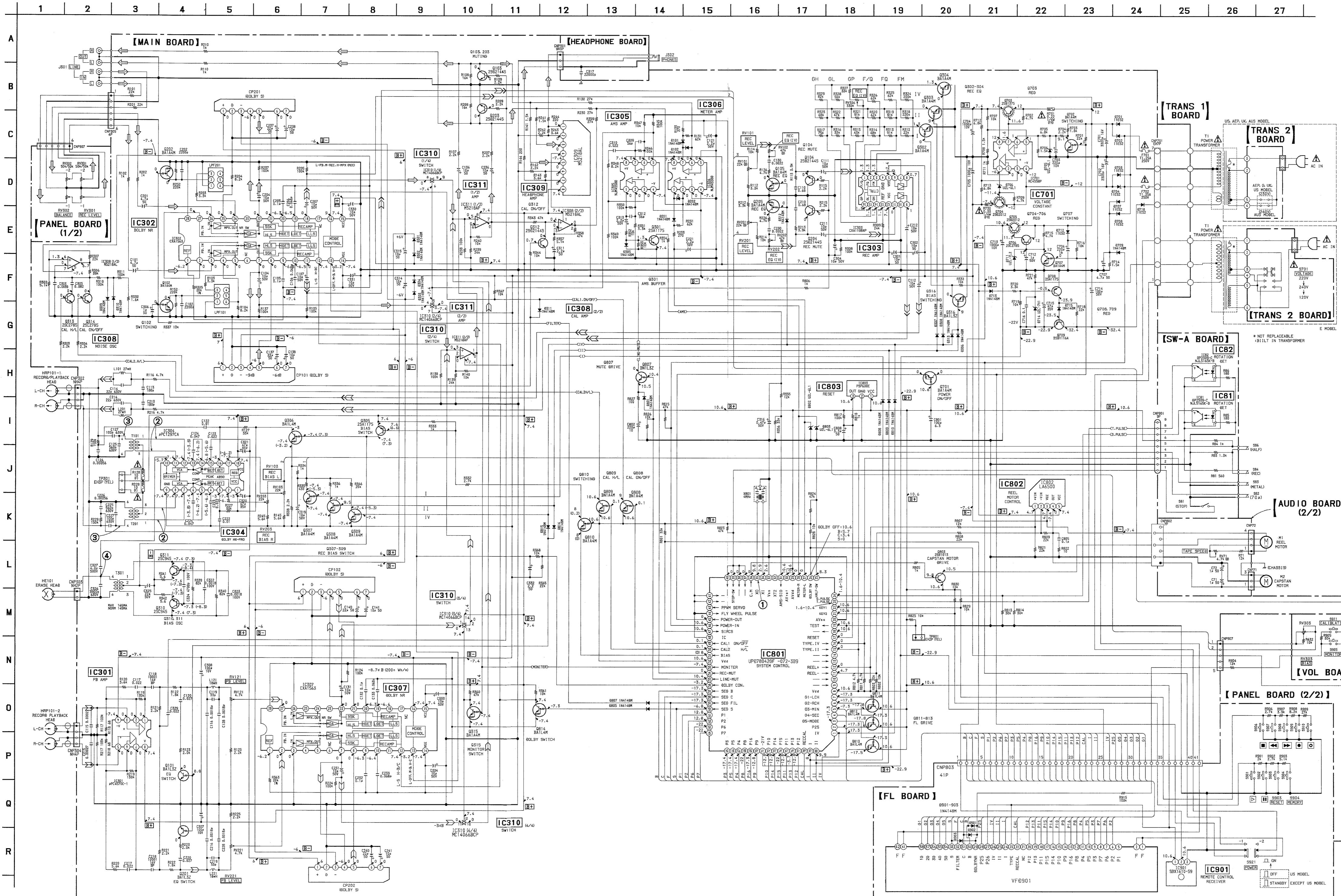
Note:

- — : parts extracted from the component side.
- : Pattern on the side which is seen.

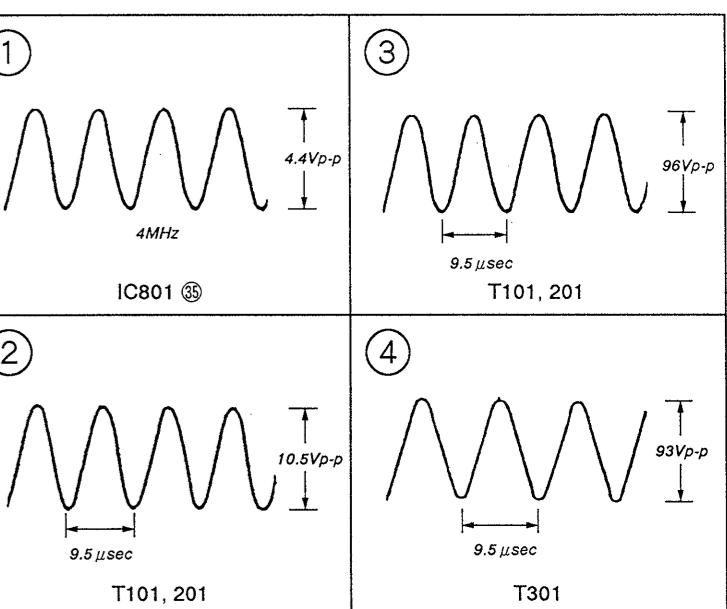
5-3. PRINTED WIRING BOARDS (MAIN SECTION)



5-4. SCHEMATIC DIAGRAM (MAIN SECTION)



• WAVEFORMS



Note :

- All capacitors are in μF unless otherwise noted. pF: $\mu \mu F$ 50W or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.

Note : The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

■ : B+ Line

■ : B- Line

□ : adjustment for repair.

Voltage and waveforms are dc with respect to ground under no-signal conditions.

no mark : stop () : REC

Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.

Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.

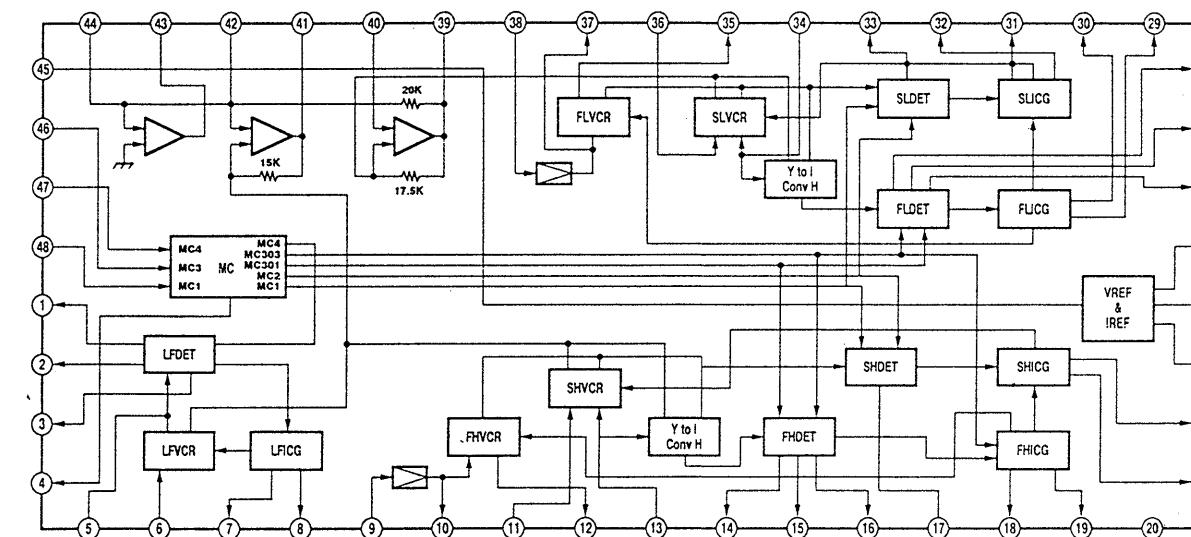
Circled numbers refer to waveforms.

Signal path:

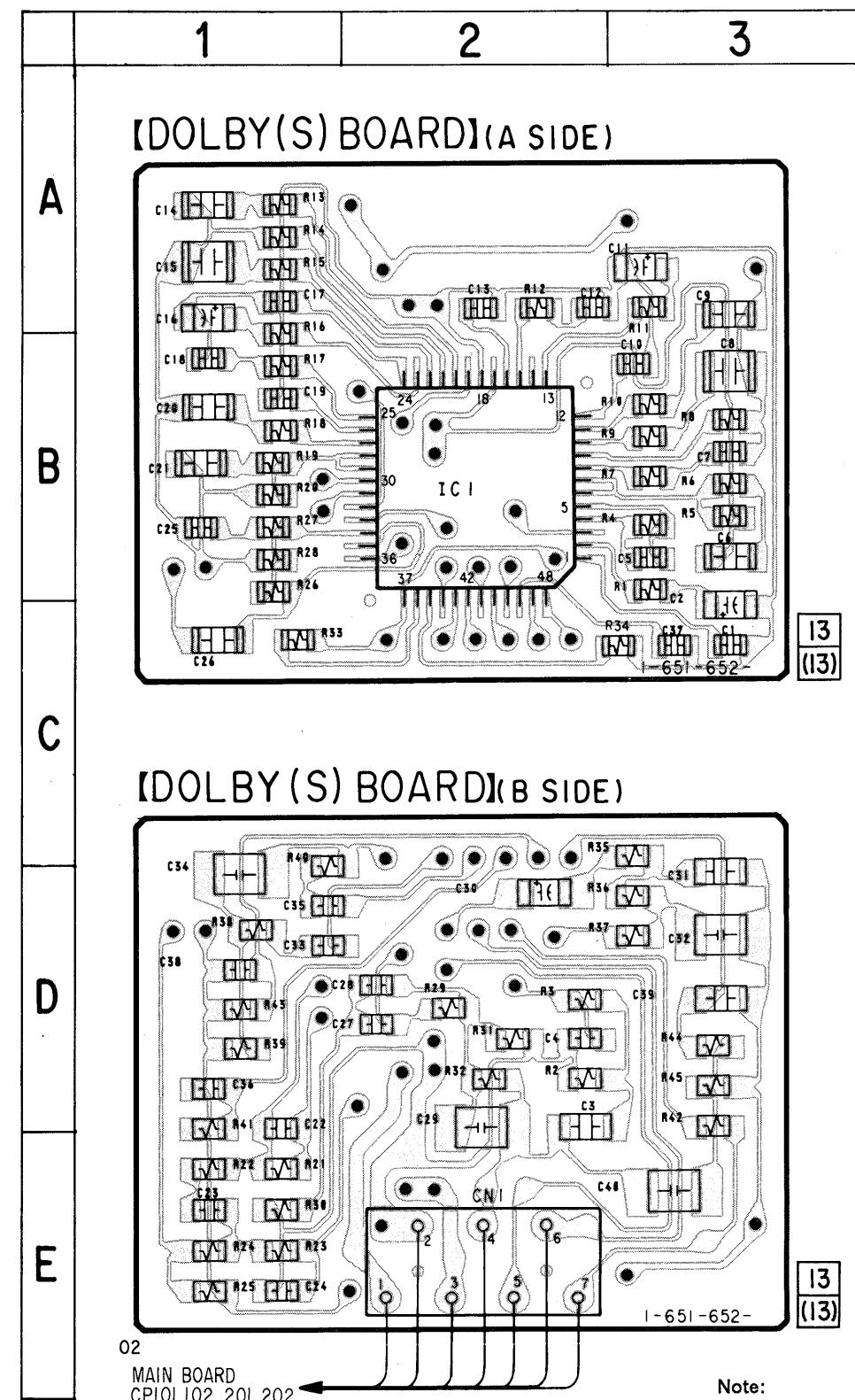
- : LINE
- : PB
- : REC

● IC BLOCK DIAGRAM

IC1 CXA1417Q



5-5. PRINTED WIRING BOARDS (DOLBY (S) BOARD)

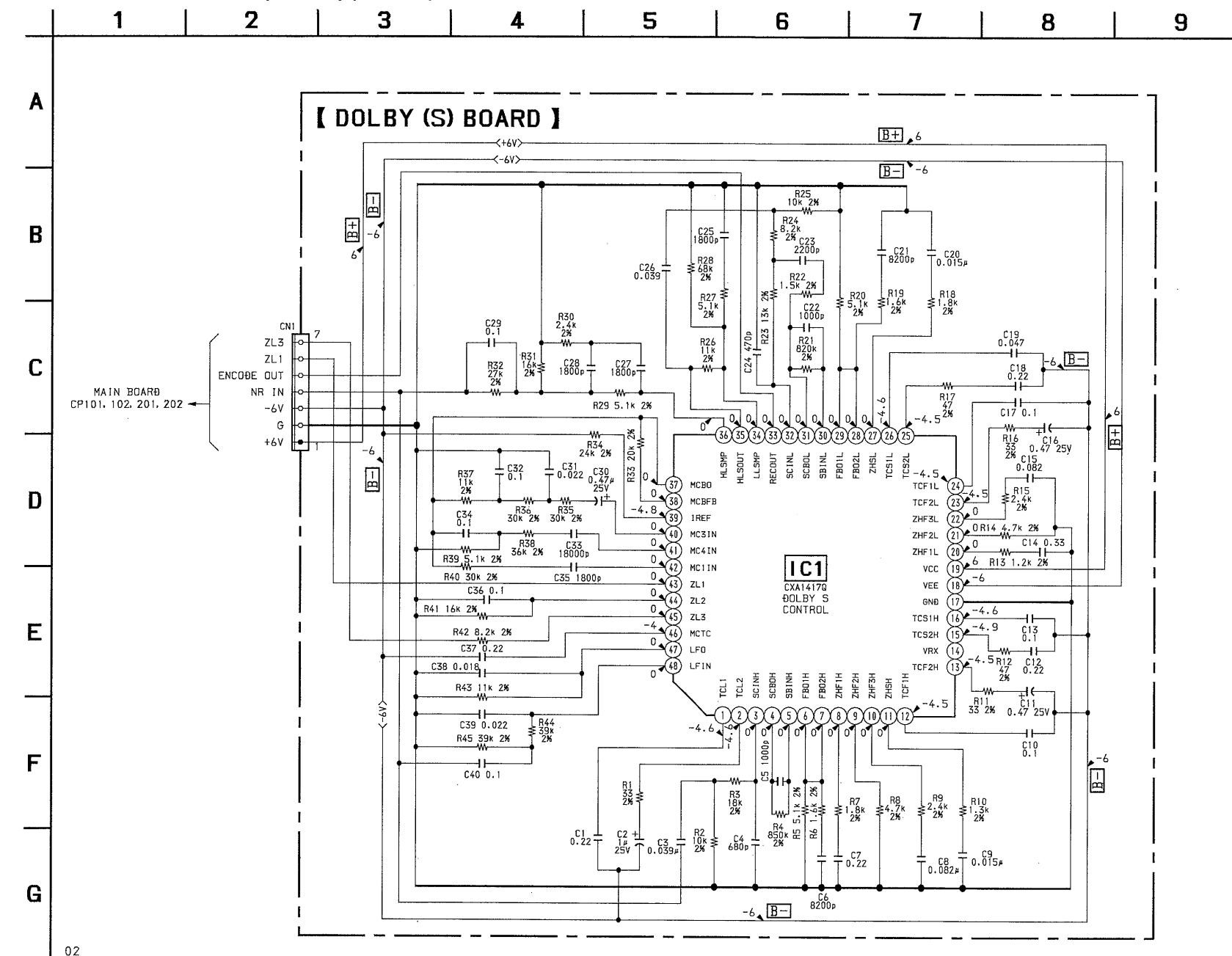


- — : parts extracted from the component side.
- ● : Through hole.
- ■■■■ : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated)

Caution :

Pattern face side : Parts on the pattern face side seen from
(Conductor Side) the pattern face are indicated.
Parts face side : Parts on the parts face side seen from the
(Component side) parts face are indicated.

5-6. SCHEMATIC DIAGRAM (DOLBY (S) BOARD)



SECTION 6 EXPLODED VIEWS

NOTE:

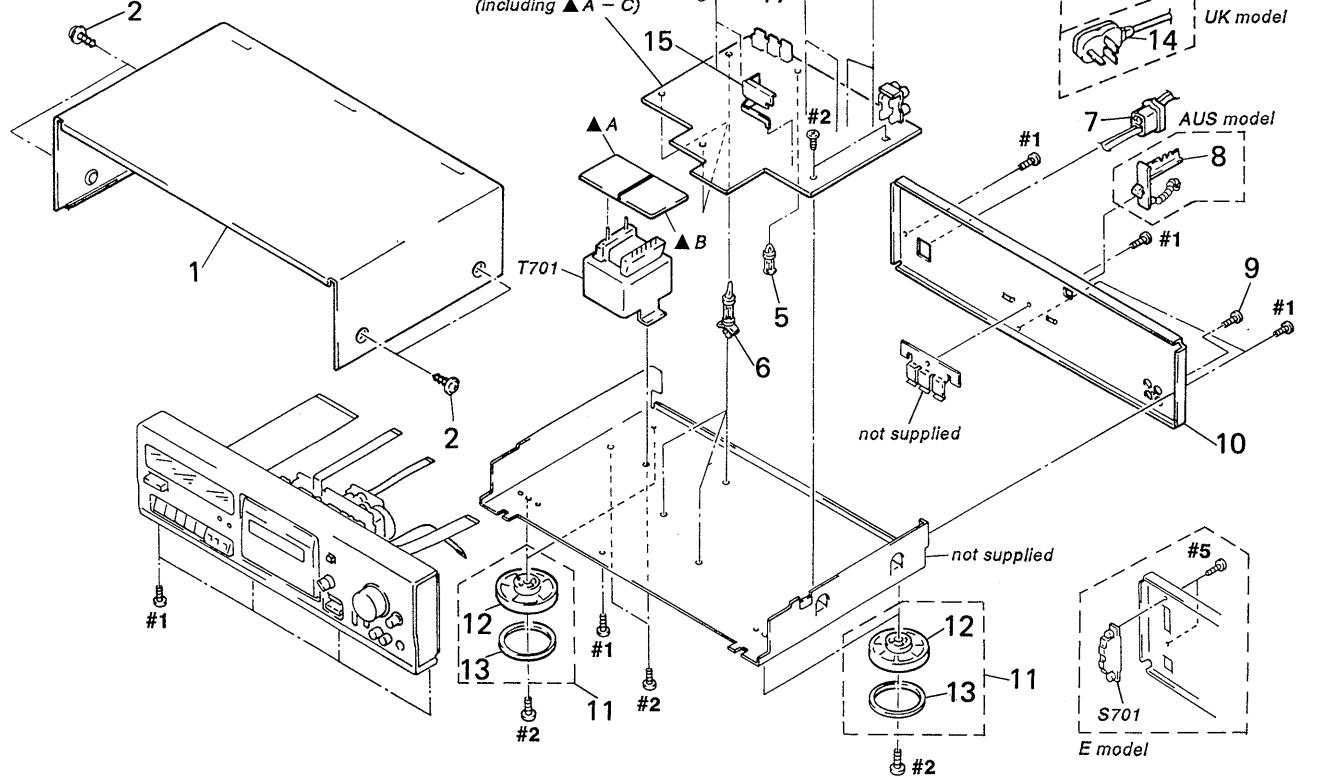
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
 - G : German
 - AUS : Australian

The components identified by mark ▲ or dotted line with mark ▲ are critical for safety.
Replace only with part number specified.

6-1. CHASSIS SECTION

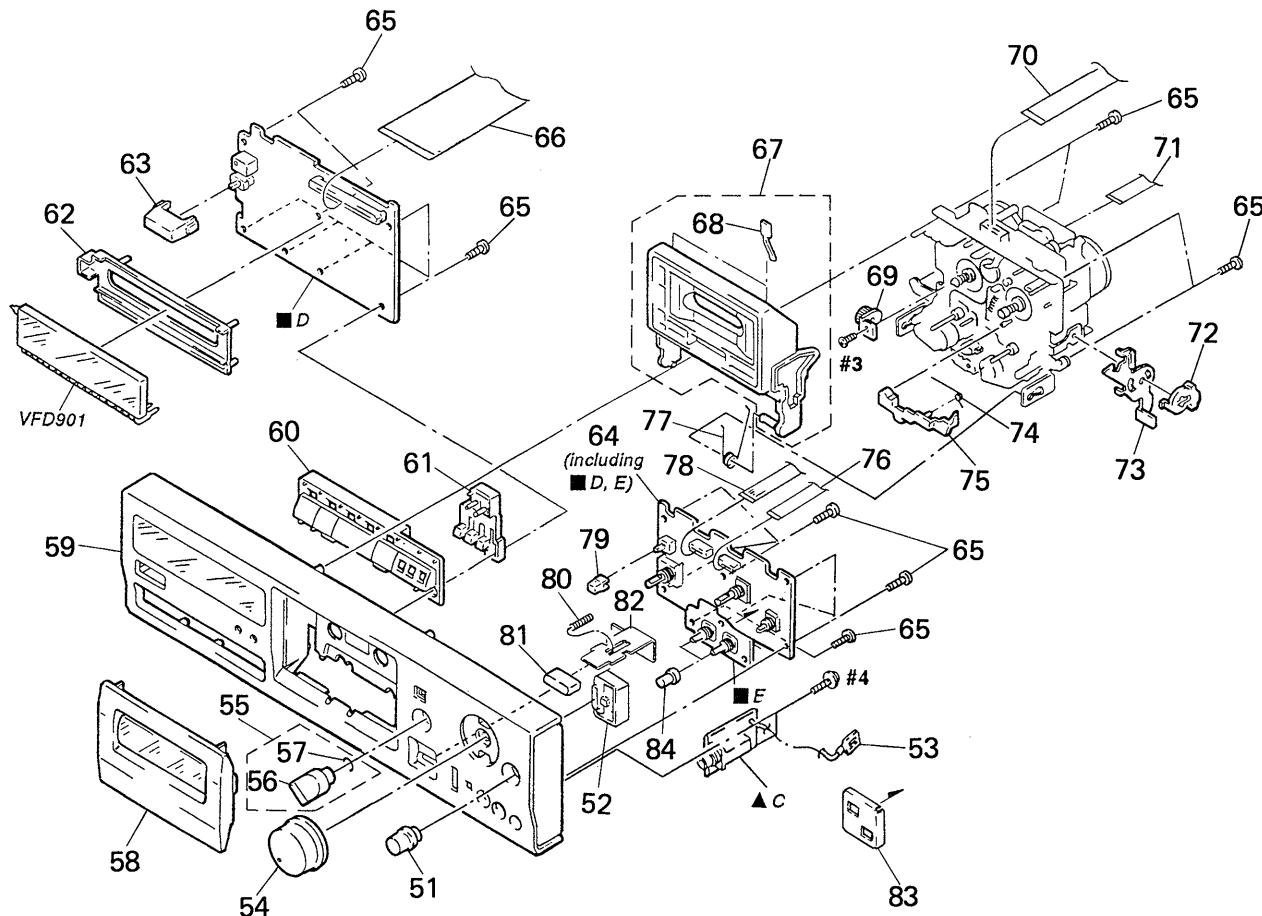
- ▲A : TRANS 1 board
- ▲B : TRANS 2 board



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 1	4-943-088-41	CASE		12	3-318-688-31	FOOT (F58175S) (TC-K561S)	
2	3-363-099-01	SCREW (CASE 3 TP2)		12	3-318-688-51	FOOT (F58175S) (TC-KA1ES)	
* 3	A-2007-362-A	MAIN BOARD, COMPLETE (AEP, UK, G, US)		13	4-923-836-21	CUSHION	
* 3	A-2007-363-A	MAIN BOARD, COMPLETE (AUS)		▲14	1-558-945-21	CORD, POWER (POLAR. SPT-1) (US)	
* 3	A-2007-364-A	MAIN BOARD, COMPLETE (E)		▲14	1-575-651-21	CORD, POWER (AEP, G)	
* 4	A-2007-416-A	DOLBY (S) BOARD, COMPLETE		▲14	1-696-027-11	CORD, POWER (E)	
* 5	3-669-610-00	SPACER		▲14	1-696-586-11	CORD, POWER (UK)	
* 6	3-346-265-31	HOLDER, PC BOARD		▲14	1-696-845-11	CORD, POWER (AUS)	
* 7	3-703-244-00	BUSHING (2104), CORD (AEP, UK, G, AUS)		* 15	3-904-545-11	PLATE (PLAYBACK HD), SHIELD	
7	3-703-571-11	BUSHING (S) (4516), CORD (US, E)		▲16	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
8	4-956-370-12	BAND, PLUG FIXED (AUS)		17	1-533-293-11	FUSE HOLDER	
9	3-704-515-01	SCREW (BV/RING)		▲F701	1-532-285-00	FUSE, TIME-LAG (TC-K561S)	
* 10	3-920-042-01	PANEL, BACK (US)		▲F701	1-532-741-11	FUSE, GLASS TUBE (TC-KA1ES)	
* 10	3-920-042-11	PANEL, BACK (AEP, G)		▲F702	1-532-285-00	FUSE, TIME-LAG (TC-K561S)	
* 10	3-920-042-21	PANEL, BACK (UK)		▲F702	1-532-741-11	FUSE, GLASS TUBE (TC-KA1ES)	
* 10	3-920-042-31	PANEL, BACK (E)		▲S701	1-692-155-11	SELECTOR, POWER VOLTAGE (VOLTAGE) (E)	
* 10	3-920-042-41	PANEL, BACK (AUS)		▲T701	1-426-726-21	TRANSFORMER, POWER (US)	
11	X-4941-291-1	FOOT ASSY (F58175S) (TC-KA1ES)		▲T701	1-426-727-21	TRANSFORMER, POWER (AEP, UK, G, AUS)	
11	X-4941-292-1	FOOT ASSY (F58175S) (TC-K561S)		▲T701	1-426-728-21	TRANSFORMER, POWER (E)	

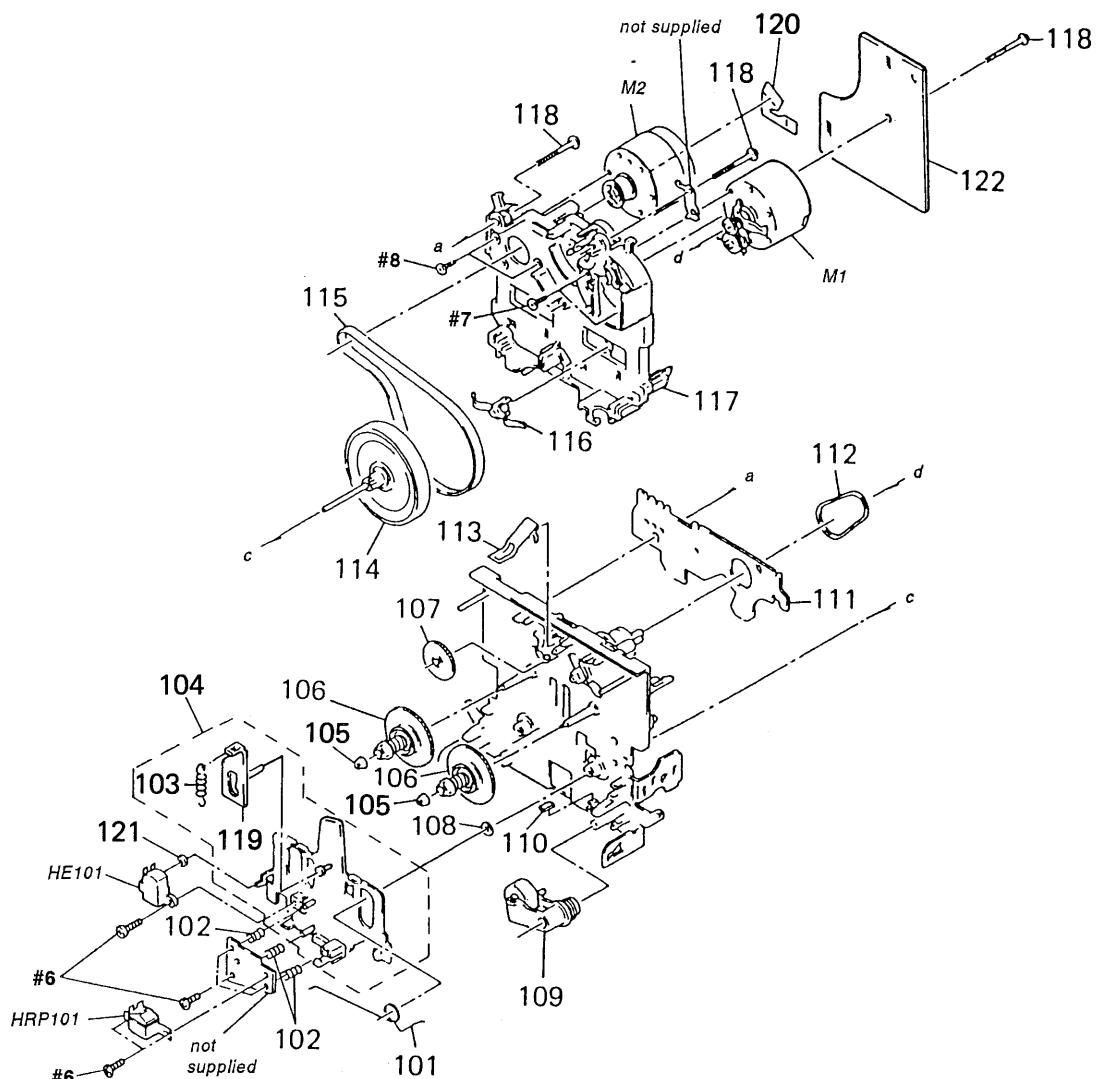
6-2. FRONT PANEL SECTION

- ▲ C : HEADPHONE board
- D : DISPLAY board
- E : VOLUME board



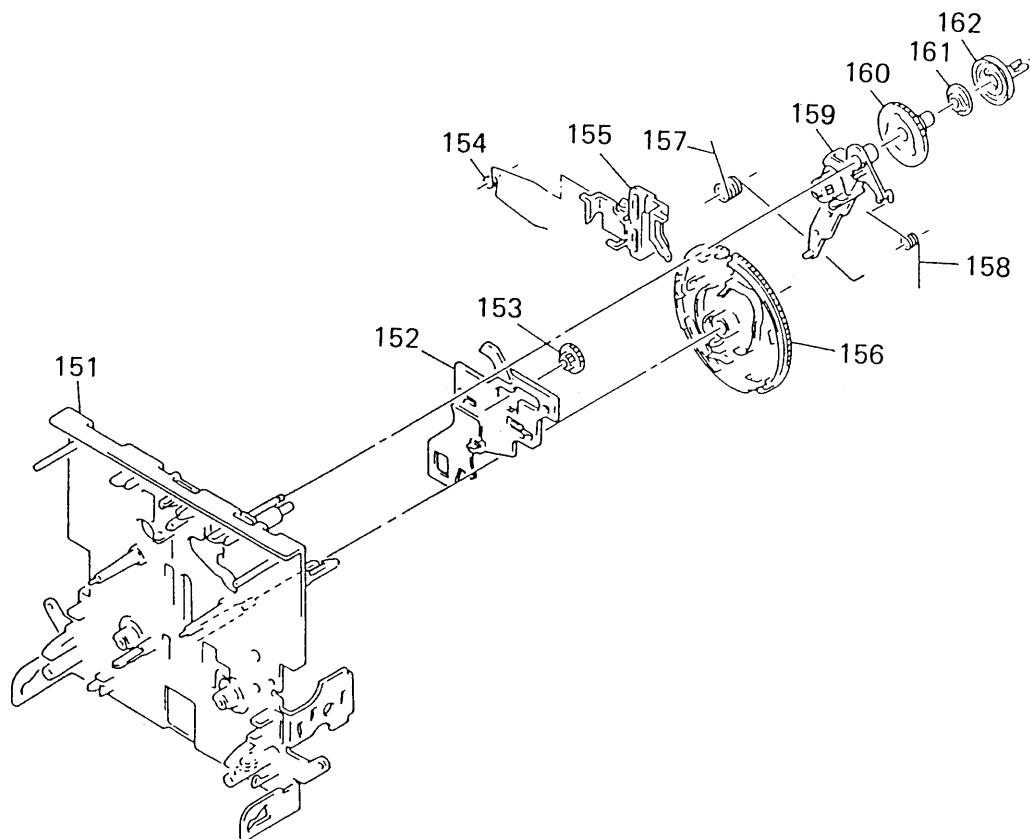
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3368-033-1	KNOB (RB) ASSY		68	3-308-823-11	DETENT, CASSETTE	
52	3-387-834-21	BUTTON (MBC)		69	3-354-963-01	DAMPER	
* 53	1-690-880-31	LEAD (WITH CONNECTOR)		70	1-751-732-11	WIRE (FLAT TYPE) (9 CORE)	
54	3-389-516-01	KNOB (REC)		71	1-751-733-11	WIRE (FLAT TYPE) (7 CORE)	
55	X-3368-032-1	KNOB ASSY		72	3-354-957-01	JOINT (LOCK LEVER)	
56	3-350-440-11	SPRING, RING		* 73	3-354-954-01	LEVER (LOCK LEVER R)	
57	4-908-097-21	KNOB		74	3-354-962-01	SPRING (EJ SAFTY SPRING R)	
58	X-3369-570-1	LID ASSY, CASSETTE (TC-KA1ES)		75	3-354-956-01	LEVER (EJ SAFTY LEVER R)	
58	X-3369-575-1	LID ASSY, CASSETTE (TC-K561S)		76	1-769-431-11	WIRE (FLAT TYPE) (5 CORE)	
59	X-3369-573-1	PANEL ASSY, FRONT (TC-KA1ES)		77	3-354-960-01	SPRING (LOADING R), TORSION	
59	X-3369-574-1	PANEL ASSY, FRONT (TC-K561S)		78	1-751-734-11	WIRE (FLAT TYPE) (5 CORE)	
60	3-386-247-11	BUTTON (FW)		79	3-380-952-21	BUTTON	
61	3-386-248-11	BUTTON (RE)		80	3-359-906-11	SPRING, COMPRESSION	
* 62	3-386-245-01	HOLDER (FL)		81	3-387-830-11	BUTTON (EJECT)	
63	3-354-932-01	BUTTON (POWER)		82	3-387-833-11	SLIDER (EJECT)	
* 64	A-2007-361-A	PANEL BOARD, COMPLETE		* 83	3-904-544-11	PLATE (VOL), SHIELD	
65	4-951-620-01	SCREW (2.6×8), +BVTP		84	3-367-431-01	KNOB (BAL)	
66	1-769-406-11	WIRE (FLAT TYPE) (41 CORE)		VFD901	1-517-163-11	INDICATOR TUBE, FLUORESCENT	
67	A-2004-357-A	HOLDER (R) ASSY, CASSETTE					

6-3. MECHANISM SECTION 1
(TCM-190VB14)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-911-014-01	SPRING, TORSION		114	X-3368-368-1	FLYWHEEL (FWD) COMPLETE ASSY	
102	3-356-659-11	SPRING (RPH), COMPRESSION		115	3-359-467-01	BELT (1 WAY FLAT BELT)	
103	3-363-868-01	SPRING (HEAD CHASSIS), TENSION		116	3-575-321-00	RETAINER, THRUST, CAPSTAN	
* 104	X-3369-024-1	SLIDER (HEAD CHASSIS) ASSY		117	3-911-007-11	BASE (THRUST RETAINER), FITTING	
105	3-362-308-01	CAP (REEL)		118	3-359-414-01	SCREW (+PTPWH 2×23)	
106	X-3366-971-1	TABLE ASSY (B), REEL		* 119	X-3368-865-1	SLIDER (LIMITER) ASSY	
107	3-359-424-01	GEAR (REV GEAR)		120	1-638-983-11	MOTOR FLEXIBLE BOARD	
108	3-356-713-01	WASHER		121	3-701-437-11	WASHER	
109	X-3366-047-1	LEVER (PINCH F) ASSY		* 122	1-634-840-21	AUDIO BOARD	
110	3-359-469-01	SPACER		HE101	1-543-673-11	HEAD, MAGNETIC (ERASE)	
* 111	1-634-841-14	SW-A BOARD		HRP101	1-543-733-11	HEAD, MAGNETIC (RECORD/PLAYBACK)	
112	3-359-466-01	BELT (FR), SQUARE		M1	X-3363-501-2	MOTOR ASSY (REEL)	
113	3-359-430-01	SPRING (CASSETTE RETAINER), LEAF		M2	X-3368-855-1	MOTOR ASSY (CAPSTAN)	

6-4. MECHANISM SECTION 2
(TCM-190VB14)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	X-3368-719-2	CHASSIS (ONE) ASSY, MECHANICAL		157	3-359-456-01	SPRING (TRIGGER SPRING), TORSION	
152	3-359-415-11	SLIDER (TRIGGER SLIDER)		158	3-924-185-11	SPRING (FR ARM), TORSION	
153	3-359-448-01	GEAR (TRIGGER)		159	X-3366-569-1	ARM ASSY, FR	
154	3-359-454-01	SPRING, TORSION		160	3-359-419-11	GEAR (FR GEAR)	
155	3-359-429-11	SLIDER (BRAKE PLATE)		161	3-359-421-01	CLUTCH (REEL DISK)	
156	3-359-420-01	GEAR (CAM GEAR)		162	3-359-418-01	PULLEY (FR PULLEY)	

SECTION 7 ELECTRICAL PARTS LIST

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- **RESISTORS**
All resistors are in ohms
METAL : Metal-film resistor
METAL OXIDE : Metal oxide-film resistor
F : nonflammable

● Items marked “ * ” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

● **SEMICONDUCTORS**

In each case, u : μ , for example:
uA.... : μ A...., uPA.... : μ PA....
uPB.... : μ PB...., uPC.... : μ PC....
uPD.... : μ PD....

● **CAPACITORS**

uf : μ F G : German

● **COILS**

uH : μ H AUS : Australian

AUDIO

DOLBY (S)

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark	
*	1-634-840-21	AUDIO BOARD	*****			C16	1-135-145-11	TANTALUM CHIP	0.47uF	10%	35V	
		< CAPACITOR >				C17	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C71	1-124-903-11	ELECT	1uF	20%	50V	C18	1-164-222-11	CERAMIC CHIP	0.22uF		25V	
C72	1-124-903-11	ELECT	1uF	20%	50V	C19	1-163-035-00	CERAMIC CHIP	0.047uF		50V	
		< CONNECTOR >				C20	1-104-553-11	FILM CHIP	0.015uF	5%	16V	
* CNP71	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P				C21	1-164-717-11	CERAMIC CHIP	0.0082uF	5%	50V	
* CNP72	1-764-902-11	CONNECTOR, FFC/FPC 4P				C22	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
* CNP73	1-568-826-11	SOCKET, CONNECTOR 7P				C23	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	
		< RESISTOR >				C24	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
R71	1-249-430-11	CARBON	12K	5%	1/4W	C25	1-163-012-00	CERAMIC CHIP	0.0018uF	10%	50V	
		< VARIABLE RESISTOR >				C26	1-104-558-11	FILM CHIP	0.039uF	5%	16V	
RV71	1-238-599-11	RES, ADJ, CARBON 4.7K (TAPE SPEED)				C27	1-163-012-00	CERAMIC CHIP	0.0018uF	10%	50V	

*	A-2007-416-A	DOLBY (S) BOARD, COMPLETE	*****			C28	1-163-012-00	CERAMIC CHIP	0.0018uF	10%	50V	
		< CAPACITOR >				C29	1-104-563-11	FILM CHIP	0.1uF	5%	16V	
C1	1-164-222-11	CERAMIC CHIP	0.22uF		25V	C30	1-135-145-11	TANTALUM CHIP	0.47uF	10%	35V	
C2	1-135-177-21	TANTALUM CHIP	1uF	20%	20V	C31	1-104-555-11	FILM CHIP	0.022uF	5%	16V	
C3	1-104-558-11	FILM CHIP	0.039uF	5%	16V	C32	1-104-563-11	FILM CHIP	0.1uF	5%	16V	
C4	1-163-007-11	CERAMIC CHIP	680PF	10%	50V	C33	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V	
C5	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	C34	1-104-563-11	FILM CHIP	0.1uF	5%	16V	
C6	1-164-717-11	CERAMIC CHIP	0.0082uF	5%	50V	C35	1-163-012-00	CERAMIC CHIP	0.0018uF	10%	50V	
C7	1-164-222-11	CERAMIC CHIP	0.22uF		25V	C36	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C8	1-104-562-11	FILM CHIP	0.082uF	5%	16V	C37	1-164-222-11	CERAMIC CHIP	0.22uF		25V	
C9	1-104-553-11	FILM CHIP	0.015uF	5%	16V	C38	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V	
C10	1-165-319-11	CERAMIC CHIP	0.1uF		50V	C39	1-104-555-11	FILM CHIP	0.022uF	5%	16V	
			< CONNECTOR >			C40	1-104-563-11	FILM CHIP	0.1uF	5%	16V	
CN1	1-695-092-11	SOCKET, CONNECTOR 7P						< IC >				
IC1	8-752-056-51	IC CXA1417Q						< RESISTOR >				
R1	1-216-615-11	METAL CHIP		33	0.5%	1/10W	R2	1-208-806-11	METAL GLAZE	10K	2%	1/10W
R3	1-208-812-11	METAL GLAZE					R3	1-208-812-11	METAL GLAZE	18K	2%	1/10W
R4	1-216-119-00	METAL CHIP					R4	1-216-119-00	METAL CHIP	820K	5%	1/10W
R5	1-208-799-11	METAL GLAZE					R5	1-208-799-11	METAL GLAZE	5.1K	2%	1/10W

DOLBY (S) MAIN HEADPHONE TRANS 1 TRANS 2

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R6	1-208-787-11	METAL GLAZE	1.6K 2% 1/10W	*	A-2007-362-A	MAIN BOARD, COMPLETE (AEP, UK, G, US)	
R7	1-216-657-11	METAL CHIP	1.8K 0.5% 1/10W	*	A-2007-363-A	MAIN BOARD, COMPLETE (AUS)	
R8	1-216-657-11	METAL CHIP	4.7K 0.5% 1/10W	*	A-2007-364-A	MAIN BOARD, COMPLETE (E)	
R9	1-208-791-11	METAL GLAZE	2.4K 2% 1/10W			*****	
R10	1-216-052-00	METAL CHIP	1.3K 5% 1/10W			HEADPHONE BOARD	
R11	1-216-615-11	METAL CHIP	33 0.5% 1/10W			*****	
R12	1-216-619-11	METAL CHIP	47 0.5% 1/10W			TRANS 1 BOARD	
R13	1-208-784-11	METAL GLAZE	1.2K 2% 1/10W			*****	
R14	1-216-667-11	METAL CHIP	4.7K 0.5% 1/10W			TRANS 2 BOARD	
R15	1-208-791-11	METAL GLAZE	2.4K 2% 1/10W			*****	
R16	1-216-615-11	METAL CHIP	33 0.5% 1/10W	*	1-533-293-11	FUSE HOLDER	
R17	1-216-619-11	METAL CHIP	47 0.5% 1/10W	*	1-690-880-31	LEAD (WITH CONNECTOR)	
R18	1-216-657-11	METAL CHIP	1.8K 0.5% 1/10W			< CAPACITOR >	
R19	1-208-787-11	METAL GLAZE	1.6K 2% 1/10W		C101	1-126-963-11 ELECT	4.7uF 20% 50V
R20	1-208-799-11	METAL GLAZE	5.1K 2% 1/10W		C102	1-162-302-11 CERAMIC	0.0022uF 20% 16V
R21	1-216-119-00	METAL CHIP	820K 5% 1/10W		C104	1-124-907-11 ELECT	10uF 20% 50V
R22	1-216-655-11	METAL CHIP	1.5K 0.5% 1/10W		C105	1-136-165-00 FILM	0.1uF 5% 50V
R23	1-216-678-11	METAL CHIP	13K 0.5% 1/10W		C106	1-136-163-00 FILM	0.068uF 5% 50V
R24	1-216-673-11	METAL CHIP	8.2K 0.5% 1/10W		C107	1-124-907-11 ELECT	10uF 20% 50V
R25	1-208-806-11	METAL GLAZE	10K 2% 1/10W		C110	1-136-175-00 FILM	0.68uF 5% 50V
R26	1-216-676-11	METAL CHIP	11K 0.5% 1/10W		C111	1-124-907-11 ELECT	10uF 20% 50V
R27	1-208-799-11	METAL GLAZE	5.1K 2% 1/10W		C112	1-124-907-11 ELECT	10uF 20% 50V
R28	1-216-695-11	METAL CHIP	68K 0.5% 1/10W		C113	1-137-428-11 FILM	180PF 5% 50V
R29	1-208-799-11	METAL GLAZE	5.1K 2% 1/10W		C114	1-136-935-11 FILM	22PF 5% 630V
R30	1-208-791-11	METAL GLAZE	2.4K 2% 1/10W		C115	1-137-429-11 FILM	270PF 5% 50V
R31	1-208-811-11	METAL GLAZE	16K 2% 1/10W		C116	1-137-434-11 FILM	0.0018uF 5% 50V
R32	1-216-685-11	METAL CHIP	27K 0.5% 1/10W		C117	1-136-157-00 FILM	0.022uF 5% 50V
R33	1-208-813-11	METAL GLAZE	20K 2% 1/10W		C118	1-107-714-11 ELECT	10uF 20% 16V
R34	1-216-684-11	METAL CHIP	24K 0.5% 1/10W		C119	1-102-518-11 CERAMIC	33PF 5% 50V
R35	1-208-817-11	METAL GLAZE	30K 2% 1/10W		C120	1-137-441-11 FILM	0.027uF 5% 50V
R36	1-208-817-11	METAL GLAZE	30K 2% 1/10W		C121	1-124-925-11 ELECT	2.2uF 20% 100V
R37	1-216-676-11	METAL CHIP	11K 0.5% 1/10W		C122	1-136-153-00 FILM	0.01uF 5% 50V
R38	1-208-819-11	METAL GLAZE	36K 2% 1/10W		C123	1-136-157-00 FILM	0.022uF 5% 50V
R39	1-208-799-11	METAL GLAZE	5.1K 2% 1/10W		C124	1-136-161-00 FILM	0.047uF 5% 50V
R40	1-208-817-11	METAL GLAZE	30K 2% 1/10W		C125	1-136-803-11 FILM	560PF 5% 630V
R41	1-208-811-11	METAL GLAZE	16K 2% 1/10W		C126	1-137-431-11 FILM	560PF 5% 50V
R42	1-216-673-11	METAL CHIP	8.2K 0.5% 1/10W		C127	1-136-433-11 FILM	100PF 5% 630V
R43	1-216-676-11	METAL CHIP	11K 0.5% 1/10W		C128	1-137-434-11 FILM	0.0018uF 5% 50V
R44	1-216-689-11	METAL CHIP	39K 0.5% 1/10W		C130	1-137-366-11 FILM	0.0022uF 5% 50V
R45	1-216-689-11	METAL CHIP	39K 0.5% 1/10W		C131	1-124-907-11 ELECT	10uF 20% 50V
*****					C132	1-136-165-00 FILM	0.1uF 5% 50V
*****					C133	1-136-163-00 FILM	0.068uF 5% 50V
*****					C136	1-124-907-11 ELECT	10uF 20% 50V
*****					C137	1-124-916-11 ELECT	22uF 20% 63V
*****					C138	1-124-907-11 ELECT	10uF 20% 50V
*****					C140	1-124-916-11 ELECT	22uF 20% 63V
*****					C141	1-124-907-11 ELECT	10uF 20% 50V
*****					C201	1-126-963-11 ELECT	4.7uF 20% 50V

MAIN **HEADPHONE** **TRANS 1** **TRANS 2**

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C202	1-162-302-11	CERAMIC	0.0022uF	20%	16V	C317	1-161-494-00	CERAMIC	0.022uF	25V	
C204	1-124-907-11	ELECT	10uF	20%	50V	C319	1-124-907-11	ELECT	10uF	20%	50V
C205	1-136-165-00	FILM	0.1uF	5%	50V	C320	1-126-967-11	ELECT	47uF	20%	35V
C206	1-136-163-00	FILM	0.068uF	5%	50V	C321	1-126-967-11	ELECT	47uF	20%	35V
C207	1-124-907-11	ELECT	10uF	20%	50V	C322	1-106-349-00	MYLAR	0.0018uF	5%	100V
C210	1-136-175-00	FILM	0.68uF	5%	50V	C323	1-106-349-00	MYLAR	0.0018uF	5%	100V
C211	1-124-907-11	ELECT	10uF	20%	50V	C324	1-106-359-00	MYLAR	4700PF	5%	200V
C212	1-124-907-11	ELECT	10uF	20%	50V	C325	1-124-916-11	ELECT	22uF	20%	63V
C213	1-137-428-11	FILM	180PF	5%	50V	C326	1-136-558-11	FILM	0.0039uF	5%	630V
C214	1-136-935-11	FILM	22PF	5%	630V	C327	1-107-584-11	CERAMIC	4PF	0.25PF	500V
C215	1-137-429-11	FILM	270PF	5%	50V	C329	1-161-494-00	CERAMIC	0.022uF	25V	
C216	1-137-434-11	FILM	0.0018uF	5%	50V	C330	1-124-907-11	ELECT	10uF	20%	50V
C217	1-136-157-00	FILM	0.022uF	5%	50V	C331	1-124-907-11	ELECT	10uF	20%	50V
C218	1-107-714-11	ELECT	10uF	20%	16V	C332	1-124-925-11	ELECT	2.2uF	20%	100V
C219	1-102-518-11	CERAMIC	33PF	5%	50V	C333	1-124-907-11	ELECT	10uF	20%	50V
C220	1-137-441-11	FILM	0.027uF	5%	50V	C334	1-124-907-11	ELECT	10uF	20%	50V
C221	1-124-925-11	ELECT	2.2uF	20%	100V	C701	1-126-936-11	ELECT	3300uF	20%	16V
C222	1-136-153-00	FILM	0.01uF	5%	50V	C702	1-126-936-11	ELECT	3300uF	20%	16V
C223	1-136-157-00	FILM	0.022uF	5%	50V	C703	1-104-666-11	ELECT	220uF	20%	10V
C224	1-136-161-00	FILM	0.047uF	5%	50V	C704	1-126-926-11	ELECT	1000uF	20%	10V
C225	1-136-803-11	FILM	560PF	5%	630V	C705	1-126-926-11	ELECT	1000uF	20%	10V
C226	1-137-431-11	FILM	560PF	5%	50V	C706	1-124-120-11	ELECT	220uF	20%	25V
C227	1-136-433-11	FILM	100PF	5%	630V	C707	1-126-963-11	ELECT	4.7uF	20%	50V
C228	1-137-434-11	FILM	0.0018uF	5%	50V	C712	1-124-903-11	ELECT	1uF	20%	50V
C230	1-137-366-11	FILM	0.0022uF	5%	50V	C713	1-126-926-11	ELECT	1000uF	20%	10V
C231	1-124-907-11	ELECT	10uF	20%	50V	C714	1-124-122-11	ELECT	100uF	20%	50V
C232	1-136-165-00	FILM	0.1uF	5%	50V	C715	1-126-967-11	ELECT	47uF	20%	35V
C233	1-136-163-00	FILM	0.068uF	5%	50V	C716	1-164-159-11	CERAMIC	0.1uF	50V	
C236	1-124-907-11	ELECT	10uF	20%	50V	C801	1-124-443-00	ELECT	100uF	20%	10V
C237	1-124-916-11	ELECT	22uF	20%	63V	C802	1-104-666-11	ELECT	220uF	20%	10V
C238	1-124-907-11	ELECT	10uF	20%	50V	C805	1-164-159-11	CERAMIC	0.1uF	50V	
C240	1-124-916-11	ELECT	22uF	20%	63V	C808	1-126-962-11	ELECT	3.3uF	20%	50V
C241	1-124-907-11	ELECT	10uF	20%	50V				< CONNECTOR >		
C301	1-124-907-11	ELECT	10uF	20%	50V						
C302	1-124-907-11	ELECT	10uF	20%	50V						
C303	1-137-436-11	FILM	0.0039uF	5%	50V				* CNP301 1-564-337-00 PIN, CONNECTOR 3P		
C304	1-124-907-11	ELECT	10uF	20%	50V				* CNP302 1-560-062-00 PIN, CONNECTOR 4P		
C305	1-136-164-00	FILM	0.082uF	5%	50V				* CNP303 1-560-060-00 PIN, CONNECTOR 2P		
C306	1-124-903-11	ELECT	1uF	20%	50V				* CNP304 1-560-062-00 PIN, CONNECTOR 4P		
C307	1-124-443-00	ELECT	100uF	20%	10V				* CNP305 1-691-462-11 PIN, CONNECTOR (PC BOARD) 6P		
C308	1-124-443-00	ELECT	100uF	20%	10V				* CNP306 1-568-824-11 SOCKET, CONNECTOR 5P		
C309	1-162-217-31	CERAMIC	56PF	5%	50V				* CNP307 1-568-824-11 SOCKET, CONNECTOR 5P		
C310	1-161-494-00	CERAMIC	0.022uF	25V					CNP701 1-564-510-11 PLUG, CONNECTOR 7P		
C311	1-124-925-11	ELECT	2.2uF	20%	100V				* CNP705 1-580-230-31 PIN, CONNECTOR (PC BOARD) 2P		
C312	1-162-217-31	CERAMIC	56PF	5%	50V				* CNP801 1-568-828-11 SOCKET, CONNECTOR 9P		
C313	1-124-925-11	ELECT	2.2uF	20%	100V				* CNP802 1-568-826-11 SOCKET, CONNECTOR 7P		
C314	1-124-907-11	ELECT	10uF	20%	50V				CNP803 1-770-246-11 SOCKET, CONNECTOR 41P		
C315	1-124-907-11	ELECT	10uF	20%	50V				CP101 1-695-087-11 PIN, CONNECTOR (PC BOARD) 7P		
C316	1-124-902-00	ELECT	0.47uF	20%	50V				CP102 1-695-087-11 PIN, CONNECTOR (PC BOARD) 7P		
									CP201 1-695-087-11 PIN, CONNECTOR (PC BOARD) 7P		

MAIN**HEADPHONE****TRANS 1****TRANS 2**

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
CP202	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P				< JACK >	
		< DIODE >		J301	1-565-258-11	JACK, PIN 4P (LINE IN/OUT)	
D101	8-719-987-63	DIODE	1N4148M	J302	1-568-519-41	JACK, LARGE TYPE (PHONES)	
D102	8-719-987-63	DIODE	1N4148M			< COIL >	
D201	8-719-987-63	DIODE	1N4148M	L101	1-410-780-11	INDUCTOR	27mH
D202	8-719-987-63	DIODE	1N4148M	L121	1-410-778-11	INDUCTOR	18mH
D301-313	8-719-987-63	DIODE	1N4148M	L201	1-410-780-11	INDUCTOR	27mH
	8-719-987-63	DIODE	1N4148M	L221	1-410-778-11	INDUCTOR	18mH
D701-704						< FILTER >	
	8-719-024-99	DIODE	11ES2-NTA2B	LF701	1-424-485-11	FILTER, LINE	
D705	8-719-933-33	DIODE	HZS6A1L	LPF101	1-235-175-11	FILTER, LOW PASS	
D706	8-719-933-33	DIODE	HZS6A1L	LPF201	1-235-175-11	FILTER, LOW PASS	
D707	8-719-024-99	DIODE	11ES2-NTA2B			< TRANSISTOR >	
D708	8-719-024-99	DIODE	11ES2-NTA2B	Q101	8-729-900-74	TRANSISTOR	DTC143TS
D709	8-719-987-63	DIODE	1N4148M	Q102	8-729-900-80	TRANSISTOR	DTC114ES
D711	8-719-000-78	DIODE	UZL-7L2	Q103	8-729-922-37	TRANSISTOR	2SD2144S
D712	8-719-024-99	DIODE	11ES2-NTA2B	Q104	8-729-922-37	TRANSISTOR	2SD2144S
D713	8-719-987-63	DIODE	1N4148M	Q105	8-729-900-80	TRANSISTOR	DTC114ES
D714	8-719-000-93	DIODE	UZL-7H1	Q201	8-729-900-74	TRANSISTOR	DTC143TS
D715	8-719-987-63	DIODE	1N4148M	Q202	8-729-900-80	TRANSISTOR	DTC114ES
D718	8-719-024-99	DIODE	11ES2-NTA2B	Q203	8-729-922-37	TRANSISTOR	2SD2144S
D801	8-719-987-63	DIODE	1N4148M	Q204	8-729-922-37	TRANSISTOR	2SD2144S
D802	8-719-933-33	DIODE	HZS6A1L	Q205	8-729-900-80	TRANSISTOR	DTC114ES
D803	8-719-933-33	DIODE	HZS6A1L	Q301	8-729-119-76	TRANSISTOR	2SA1175-HFE
D805	8-719-987-63	DIODE	1N4148M	Q302	8-729-900-80	TRANSISTOR	DTC114ES
D807	8-719-987-63	DIODE	1N4148M	Q303	8-729-900-80	TRANSISTOR	DTC114ES
D808	8-719-987-63	DIODE	1N4148M	Q304	8-729-900-80	TRANSISTOR	DTC114ES
D809	8-719-987-63	DIODE	1N4148M	Q305	8-729-119-76	TRANSISTOR	2SA1175-HFE
D810	8-719-987-63	DIODE	1N4148M	Q306	8-729-900-89	TRANSISTOR	DTC144ES
D814	8-719-987-63	DIODE	1N4148M	Q307	8-729-900-80	TRANSISTOR	DTC114ES
D815	8-719-987-63	DIODE	1N4148M	Q308	8-729-900-80	TRANSISTOR	DTC114ES
		< IC >		Q309	8-729-900-80	TRANSISTOR	DTC114ES
IC301	8-759-111-44	IC	uPC4570C-1	Q310	8-729-194-57	TRANSISTOR	2SC945-P
IC302	8-752-066-35	IC	CXA1563S	Q311	8-729-194-57	TRANSISTOR	2SC945-P
IC303	8-752-060-64	IC	CXA1198AP	Q312	8-729-922-37	TRANSISTOR	2SD2144S
IC304	8-759-106-56	IC	uPC1297CA	Q313	8-729-119-78	TRANSISTOR	2SC403SP-51
IC305	8-759-634-51	IC	M5218AP	Q314	8-729-119-78	TRANSISTOR	2SC403SP-51
IC306	8-759-634-51	IC	M5218AP	Q315	8-729-900-80	TRANSISTOR	DTC114ES
IC307	8-752-066-35	IC	CXA1563S	Q316	8-729-900-74	TRANSISTOR	DTC143TS
IC308	8-759-634-50	IC	M5218AL	Q701	8-729-900-80	TRANSISTOR	DTC114ES
IC309	8-759-634-50	IC	M5218AL	Q702	8-729-900-80	TRANSISTOR	DTC114ES
IC310	8-759-000-49	IC	MC14066BCP	Q703	8-729-141-83	TRANSISTOR	2SB1094-LK
IC311	8-759-634-51	IC	M5218AP	Q704	8-729-209-15	TRANSISTOR	2SD2012
IC701	8-759-145-58	IC	uPC4558C	Q705	8-729-209-15	TRANSISTOR	2SD2012
IC801	8-759-254-85	IC	uPD78042GF-072-3B9	Q706	8-729-119-78	TRANSISTOR	2SC403SP-51
IC802	8-759-803-42	IC	LA6500-FA				
IC803	8-759-165-82	IC	PST600E-T				

MAIN

HEADPHONE

TRANS 1

TRANS 2

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q707	8-729-900-80	TRANSISTOR	DTC114ES	R145	1-249-426-11	CARBON	5.6K 5% 1/4W
Q708	8-729-119-76	TRANSISTOR	2SA1175-HFE	R152	1-247-887-00	CARBON	220K 5% 1/4W
Q709	8-729-140-04	TRANSISTOR	2SB116A-L	R201	1-249-433-11	CARBON	22K 5% 1/4W
Q803	8-729-801-84	TRANSISTOR	2SB1013-4	R202	1-249-417-11	CARBON	1K 5% 1/4W
Q807	8-729-142-36	TRANSISTOR	BN1L3Z	R203	1-249-423-11	CARBON	3.3K 5% 1/4W
Q808	8-729-422-57	TRANSISTOR	UN4111	R204	1-249-428-11	CARBON	8.2K 5% 1/4W
Q809	8-729-422-57	TRANSISTOR	UN4111	R205	1-249-441-11	CARBON	100K 5% 1/4W
Q810-814	8-729-900-89	TRANSISTOR	DTC144ES	R207	1-249-421-11	CARBON	2.2K 5% 1/4W
			< RESISTOR >	R208	1-247-860-11	CARBON	16K 5% 1/4W
R101	1-249-433-11	CARBON	22K 5% 1/4W	R209	1-249-421-11	CARBON	2.2K 5% 1/4W
R102	1-249-417-11	CARBON	1K 5% 1/4W	R210	1-249-417-11	CARBON	1K 5% 1/4W
R103	1-249-423-11	CARBON	3.3K 5% 1/4W	R212	1-249-423-11	CARBON	3.3K 5% 1/4W
R104	1-249-428-11	CARBON	8.2K 5% 1/4W	R213	1-249-424-11	CARBON	3.9K 5% 1/4W
R105	1-249-441-11	CARBON	100K 5% 1/4W	R214	1-249-429-11	CARBON	10K 5% 1/4W
R107	1-249-421-11	CARBON	2.2K 5% 1/4W	R215	1-249-421-11	CARBON	2.2K 5% 1/4W
R108	1-247-860-11	CARBON	16K 5% 1/4W	R216	1-249-425-11	CARBON	4.7K 5% 1/4W
R109	1-249-421-11	CARBON	2.2K 5% 1/4W	R217	1-249-441-11	CARBON	100K 5% 1/4W
R110	1-249-417-11	CARBON	1K 5% 1/4W	R218	1-249-403-11	CARBON	68 5% 1/4W
R112	1-249-423-11	CARBON	3.3K 5% 1/4W	R219	1-247-882-11	CARBON	130K 5% 1/4W
R113	1-249-424-11	CARBON	3.9K 5% 1/4W	R220	1-249-426-11	CARBON	5.6K 5% 1/4W
R114	1-249-429-11	CARBON	10K 5% 1/4W	R221	1-249-421-11	CARBON	2.2K 5% 1/4W
R115	1-249-421-11	CARBON	2.2K 5% 1/4W	R222	1-249-420-11	CARBON	1.8K 5% 1/4W
R116	1-249-425-11	CARBON	4.7K 5% 1/4W	R223	1-247-838-00	CARBON	2K 5% 1/4W
R117	1-249-441-11	CARBON	100K 5% 1/4W	R224	1-249-441-11	CARBON	100K 5% 1/4W
R118	1-249-403-11	CARBON	68 5% 1/4W	R225	1-249-421-11	CARBON	2.2K 5% 1/4W
R119	1-247-882-11	CARBON	130K 5% 1/4W	R226	1-249-425-11	CARBON	4.7K 5% 1/4W
R120	1-249-426-11	CARBON	5.6K 5% 1/4W	R227	1-249-435-11	CARBON	33K 5% 1/4W
R121	1-249-421-11	CARBON	2.2K 5% 1/4W	△R228	1-219-153-11	FUSIBLE	10 5% 1/4W F
R122	1-249-420-11	CARBON	1.8K 5% 1/4W	R229	1-247-883-00	CARBON	150K 5% 1/4W
R123	1-247-838-00	CARBON	2K 5% 1/4W	R230	1-249-434-11	CARBON	27K 5% 1/4W
R124	1-249-441-11	CARBON	100K 5% 1/4W	R231	1-247-874-11	CARBON	62K 5% 1/4W
R125	1-249-421-11	CARBON	2.2K 5% 1/4W	R233	1-249-410-11	CARBON	270 5% 1/4W
R126	1-249-425-11	CARBON	4.7K 5% 1/4W	R237	1-249-441-11	CARBON	100K 5% 1/4W
R127	1-249-435-11	CARBON	33K 5% 1/4W	R238	1-249-441-11	CARBON	100K 5% 1/4W
△R128	1-219-153-11	FUSIBLE	10 5% 1/4W F	R239	1-247-864-11	CARBON	24K 5% 1/4W
R129	1-247-883-00	CARBON	150K 5% 1/4W	R240	1-249-429-11	CARBON	10K 5% 1/4W
R130	1-249-434-11	CARBON	27K 5% 1/4W	R241	1-249-419-11	CARBON	1.5K 5% 1/4W
R131	1-247-874-11	CARBON	62K 5% 1/4W	R242	1-249-421-11	CARBON	2.2K 5% 1/4W
R133	1-249-410-11	CARBON	270 5% 1/4W	R243	1-247-844-11	CARBON	3.6K 5% 1/4W
R137	1-249-441-11	CARBON	100K 5% 1/4W	R244	1-249-409-11	CARBON	220 5% 1/4W
R138	1-249-441-11	CARBON	100K 5% 1/4W	R245	1-249-426-11	CARBON	5.6K 5% 1/4W
R139	1-247-864-11	CARBON	24K 5% 1/4W	R252	1-247-887-00	CARBON	220K 5% 1/4W
R140	1-249-429-11	CARBON	10K 5% 1/4W	R302	1-247-848-11	CARBON	5.1K 5% 1/4W
R141	1-249-419-11	CARBON	1.5K 5% 1/4W	R303	1-249-421-11	CARBON	2.2K 5% 1/4W
R142	1-249-421-11	CARBON	2.2K 5% 1/4W	R304	1-249-421-11	CARBON	2.2K 5% 1/4W
R143	1-247-844-11	CARBON	3.6K 5% 1/4W	R305	1-215-452-00	METAL	20K 1% 1/4W
R144	1-249-409-11	CARBON	220 5% 1/4W	R306	1-249-436-11	CARBON	39K 5% 1/4W
				R307	1-249-433-11	CARBON	22K 5% 1/4W
				R308	1-249-441-11	CARBON	100K 5% 1/4W

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

MAIN**HEADPHONE****TRANS 1****TRANS 2**

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R309	1-247-864-11	CARBON	24K 5% 1/4W	R358	1-249-437-11	CARBON	47K 5% 1/4W
R310	1-249-441-11	CARBON	100K 5% 1/4W	R359	1-249-434-11	CARBON	27K 5% 1/4W
R311	1-249-441-11	CARBON	100K 5% 1/4W	R360	1-249-437-11	CARBON	47K 5% 1/4W
R312	1-249-433-11	CARBON	22K 5% 1/4W	R361	1-249-429-11	CARBON	10K 5% 1/4W
R313	1-247-878-00	CARBON	91K 5% 1/4W	R363	1-215-452-00	METAL	20K 1% 1/4W
R314	1-249-439-11	CARBON	68K 5% 1/4W	R365	1-249-433-11	CARBON	22K 5% 1/4W
R315	1-247-870-11	CARBON	43K 5% 1/4W	R366	1-247-862-11	CARBON	20K 5% 1/4W
R316	1-249-435-11	CARBON	33K 5% 1/4W	R367	1-249-429-11	CARBON	10K 5% 1/4W
R317	1-247-876-11	CARBON	75K 5% 1/4W	R368	1-249-429-11	CARBON	10K 5% 1/4W
R318	1-247-887-00	CARBON	220K 5% 1/4W	R701	1-249-433-11	CARBON	22K 5% 1/4W
R319	1-247-878-00	CARBON	91K 5% 1/4W	R702	1-249-425-11	CARBON	4.7K 5% 1/4W
R320	1-247-874-11	CARBON	62K 5% 1/4W	R703	1-249-420-11	CARBON	1.8K 5% 1/4W
R321	1-247-878-00	CARBON	91K 5% 1/4W	R704	1-249-421-11	CARBON	2.2K 5% 1/4W
R322	1-249-437-11	CARBON	47K 5% 1/4W	R705	1-249-427-11	CARBON	6.8K 5% 1/4W
R323	1-249-439-11	CARBON	68K 5% 1/4W	R706	1-249-419-11	CARBON	1.5K 5% 1/4W
R324	1-247-886-11	CARBON	200K 5% 1/4W	R707	1-249-429-11	CARBON	10K 5% 1/4W
R325	1-247-874-11	CARBON	62K 5% 1/4W	R708	1-249-419-11	CARBON	1.5K 5% 1/4W
R326	1-247-874-11	CARBON	62K 5% 1/4W	R709	1-249-425-11	CARBON	4.7K 5% 1/4W
R327	1-249-435-11	CARBON	33K 5% 1/4W	R711	1-249-417-11	CARBON	1K 5% 1/4W
R328	1-249-438-11	CARBON	56K 5% 1/4W	R712	1-249-427-11	CARBON	6.8K 5% 1/4W
R329	1-249-440-11	CARBON	82K 5% 1/4W	R713	1-249-427-11	CARBON	6.8K 5% 1/4W
R330	1-247-836-11	CARBON	1.6K 5% 1/4W	R714	1-249-419-11	CARBON	1.5K 5% 1/4W
R331	1-249-429-11	CARBON	10K 5% 1/4W	R715	1-249-425-11	CARBON	4.7K 5% 1/4W
R332	1-249-422-11	CARBON	2.7K 5% 1/4W	R716	1-249-429-11	CARBON	10K 5% 1/4W
R333	1-249-417-11	CARBON	1K 5% 1/4W	R718	1-249-433-11	CARBON	22K 5% 1/4W
R334	1-249-417-11	CARBON	1K 5% 1/4W	R719	1-249-429-11	CARBON	10K 5% 1/4W
R335	1-247-822-11	CARBON	430 5% 1/4W	R720	1-249-423-11	CARBON	3.3K 5% 1/4W
R336	1-249-417-11	CARBON	1K 5% 1/4W	R721	1-249-437-11	CARBON	47K 5% 1/4W
R337	1-249-429-11	CARBON	10K 5% 1/4W	▲R730	1-219-137-11	FUSIBLE	0.33 10% 1/4WF
R338	1-249-421-11	CARBON	2.2K 5% 1/4W	▲R731	1-219-136-11	FUSIBLE	0.22 10% 1/4WF
R339	1-249-440-11	CARBON	82K 5% 1/4W	R801	1-249-435-11	CARBON	33K 5% 1/4W
R340	1-249-440-11	CARBON	82K 5% 1/4W	R802	1-249-429-11	CARBON	10K 5% 1/4W
R341	1-249-390-11	CARBON	5.6 5% 1/4W	R803	1-247-862-11	CARBON	20K 5% 1/4W
R342	1-249-390-11	CARBON	5.6 5% 1/4W	R805	1-249-417-11	CARBON	1K 5% 1/4W
R343	1-249-437-11	CARBON	47K 5% 1/4W	R806	1-249-417-11	CARBON	1K 5% 1/4W
R344	1-249-429-11	CARBON	10K 5% 1/4W	R807	1-249-430-11	CARBON	12K 5% 1/4W
R345	1-249-441-11	CARBON	100K 5% 1/4W	R808	1-249-433-11	CARBON	22K 5% 1/4W
R346	1-249-441-11	CARBON	100K 5% 1/4W	R809	1-249-433-11	CARBON	22K 5% 1/4W
R347	1-249-429-11	CARBON	10K 5% 1/4W	R811	1-249-425-11	CARBON	4.7K 5% 1/4W
R348	1-249-428-11	CARBON	8.2K 5% 1/4W	R812	1-249-425-11	CARBON	4.7K 5% 1/4W
R349	1-249-441-11	CARBON	100K 5% 1/4W	R813	1-247-866-11	CARBON	30K 5% 1/4W
R350	1-249-441-11	CARBON	100K 5% 1/4W	R814	1-247-866-11	CARBON	30K 5% 1/4W
R351	1-249-423-11	CARBON	3.3K 5% 1/4W	R815	1-249-437-11	CARBON	47K 5% 1/4W
R352	1-249-429-11	CARBON	10K 5% 1/4W	R817	1-249-441-11	CARBON	100K 5% 1/4W
R353	1-249-429-11	CARBON	10K 5% 1/4W	R818	1-249-417-11	CARBON	1K 5% 1/4W
R354	1-249-417-11	CARBON	1K 5% 1/4W	R821	1-249-433-11	CARBON	22K 5% 1/4W
R355	1-249-430-11	CARBON	12K 5% 1/4W	R822	1-249-393-11	CARBON	10 5% 1/4W
R356	1-249-435-11	CARBON	33K 5% 1/4W	R823	1-249-437-11	CARBON	47K 5% 1/4W
R357	1-247-848-11	CARBON	5.1K 5% 1/4W	R824	1-249-437-11	CARBON	47K 5% 1/4W

The components identified by mark ▲ or dotted line with mark ▲ are critical for safety.
Replace only with part number specified.

MAIN	HEADPHONE	TRANS 1	TRANS 2	PANEL	FL	VOL
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Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R825	1-249-429-11	CARBON	10K	5%	1/4W			< IC >			
R826	1-249-429-11	CARBON	10K	5%	1/4W			IC901 8-741-810-59 IC SBX1810-59			
R827	1-247-807-31	CARBON	100	5%	1/4W			< RESISTOR >			
R828	1-249-429-11	CARBON	10K	5%	1/4W			R153 1-249-425-11 CARBON 4.7K 5% 1/4W			
R829	1-249-429-11	CARBON	10K	5%	1/4W			R253 1-249-425-11 CARBON 4.7K 5% 1/4W			
R830	1-249-429-11	CARBON	10K	5%	1/4W			R362 1-249-429-11 CARBON 10K 5% 1/4W			
			< VARIABLE RESISTOR >			R901 1-247-838-00 CARBON 2K 5% 1/4W			R902 1-249-422-11 CARBON 2.7K 5% 1/4W		
RV101	1-241-765-11	RES, ADJ, CARBON 22K (REC LEVEL)				< TRANSFORMER >			R903 1-247-848-11 CARBON 5.1K 5% 1/4W		
RV102	1-238-019-11	RES, ADJ, CARBON 47K (REC EQ (IV))				R904 1-249-430-11 CARBON 12K 5% 1/4W			R905 1-247-866-11 CARBON 30K 5% 1/4W		
RV103	1-241-765-11	RES, ADJ, CARBON 22K (REC BIAS)				R906 1-249-422-11 CARBON 2.7K 5% 1/4W			R907 1-249-424-11 CARBON 3.9K 5% 1/4W		
RV121	1-241-763-11	RES, ADJ, CARBON 4.7K (PB LEVEL)				R908 1-249-428-11 CARBON 8.2K 5% 1/4W			R909 1-249-434-11 CARBON 27K 5% 1/4W		
RV201	1-241-765-11	RES, ADJ, CARBON 22K (REC LEVEL)				R910 1-247-838-00 CARBON 2K 5% 1/4W			R911 1-249-422-11 CARBON 2.7K 5% 1/4W		
RV202	1-238-019-11	RES, ADJ, CARBON 47K (REC EQ (IV))				R912 1-247-848-11 CARBON 5.1K 5% 1/4W			< VARIABLE RESISTOR >		
RV203	1-241-765-11	RES, ADJ, CARBON 22K (REC BIAS)				R913 1-249-430-11 CARBON 12K 5% 1/4W			R914 1-247-866-11 CARBON 30K 5% 1/4W		
RV221	1-241-763-11	RES, ADJ, CARBON 4.7K (PB LEVEL)				R915 1-249-441-11 CARBON 100K 5% 1/4W			< TEST PIN >		
RV306	1-223-387-21	RES, ADJ, CARBON 330K (REC EQ (IV))				RV301 1-241-820-11 RES, VAR, CARBON 50K/50K (REC LEVEL)			RV302 1-241-897-11 RES, VAR, CARBON 50K/50K (BALANCE)		
T101	1-433-344-11	TRANSFORMER, BIAS OSCILLATION				RV303 1-241-896-11 RES, VAR, CARBON 10K (BIAS)			RV304 1-223-366-11 RES, VAR, CARBON 5K/5K (REC LEVEL)		
T201	1-433-344-11	TRANSFORMER, BIAS OSCILLATION				< CONNECTOR >			S901 1-554-303-21 SWITCH, TACTILE (▷)		
T301	1-423-614-11	TRANSFORMER, BIAS OSCILLATION				S902 1-554-303-21 SWITCH, TACTILE (II)			S903 1-554-303-21 SWITCH, TACTILE (RESET)		
			< VIBRATOR >			S904 1-554-303-21 SWITCH, TACTILE (MEMORY)			S905 1-554-303-21 SWITCH, TACTILE (MONITOR)		
X801	1-577-358-21	VIBRATOR, CERAMIC (4MHz)				S906 1-554-303-21 SWITCH, TACTILE (■)			S907 1-554-303-21 SWITCH, TACTILE (◀)		
*	A-2007-361-A	PANEL BOARD, COMPLETE				S908 1-554-303-21 SWITCH, TACTILE (▶)			S909 1-554-303-21 SWITCH, TACTILE (●)		
*	TP301	1-564-506-11 PLUG, CONNECTOR 3P				S910 1-554-303-21 SWITCH, TACTILE (○)			S911 1-554-303-21 SWITCH, TACTILE (CALIBRATION)		
*	TP801	1-560-060-00 PIN, CONNECTOR 2P				S921 1-692-409-11 SWITCH, PUSH (1 KEY) (POWER)			S922 1-554-118-00 SWITCH, PUSH (1 KEY) (MPX FILTER)		
			< DIODE >			S923 1-692-410-11 SWITCH, ROTARY (DOLBY NR)			*****		
*	CNP903	1-770-246-11 SOCKET, CONNECTOR 41P				*****			*****		
*	CNP906	1-568-824-11 SOCKET, CONNECTOR 5P				*****			*****		
*	CNP907	1-568-824-11 SOCKET, CONNECTOR 5P				*****			*****		
			< DIODE >			*****			*****		
D901	8-719-987-63	DIODE	1N4148M			*****			*****		
D902	8-719-987-63	DIODE	1N4148M			*****			*****		
D903	8-719-987-63	DIODE	1N4148M			*****			*****		

SW-A

Ref. No.	Part No.	Description	Remark
*	1-634-841-14	SW-A BOARD *****	
		< CONNECTOR >	
* CNP81	1-568-852-11	SOCKET, CONNECTOR 9P < IC >	
IC81	8-749-924-10	IC NJL5165K-B(H1)	
IC82	8-749-924-10	IC NJL5165K-B(H1)	
		< RESISTOR >	
R81	1-249-414-11	CARBON 560 5% 1/4W	
R83	1-247-834-11	CARBON 1.3K 5% 1/4W	
R84	1-249-417-11	CARBON 1K 5% 1/4W	
R85	1-249-408-11	CARBON 180 5% 1/4W	
R86	1-249-408-11	CARBON 180 5% 1/4W	
		< SWITCH >	
S81	1-571-958-11	SWITCH, PUSH (1 KEY) (STOP)	
S82	1-571-281-21	SWITCH, LEAF (70u)	
S83	1-571-281-21	SWITCH, LEAF (METAL)	
S84	1-571-281-21	SWITCH, LEAF (REC)	
S86	1-571-281-21	SWITCH, LEAF (HALF)	

MISCELLANEOUS *****			
△14	1-558-945-21	CORD, POWER (POLAR, SPT-1) (US)	
△14	1-575-651-21	CORD, POWER (AEP, G)	
△14	1-696-027-11	CORD, POWER (E)	
△14	1-696-586-11	CORD, POWER (UK)	
△14	1-696-845-11	CORD, POWER (AUS)	
△16	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
66	1-769-406-11	WIRE (FLAT TYPE) (41 CORE)	
70	1-751-732-11	WIRE (FLAT TYPE) (9 CORE)	
71	1-751-733-11	WIRE (FLAT TYPE) (7 CORE)	
76	1-769-431-11	WIRE (FLAT TYPE) (5 CORE)	
78	1-751-734-11	WIRE (FLAT TYPE) (5 CORE)	
120	1-638-983-11	PC BOARD, MOTOR FLEXIBLE	
△F701	1-532-285-00	FUSE, TIME-LAG (TC-K561S)	
△F701	1-532-741-11	FUSE, GLASS TUBE (TC-KA1ES)	
△F702	1-532-285-00	FUSE, TIME-LAG (TC-K561S)	
△F702	1-532-741-11	FUSE, GLASS TUBE (TC-KA1ES)	
HE101	1-543-673-11	HEAD, MAGNETIC (ERASE)	
HRP101	1-543-733-11	HEAD, MAGNETIC (RECORD/PLAYBACK)	
M1	X-3363-501-2	MOTOR ASSY (REEL)	
M2	X-3368-855-1	MOTOR ASSY (CAPSTAN)	
△S701	1-692-155-11	SELECTOR, POWER VOLTAGE (VOLTAGE) (E)	
△T701	1-426-726-21	TRANSFORMER, POWER (US)	

Ref. No.	Part No.	Description	Remark
△T701	1-426-727-21	TRANSFORMER, POWER (AEP, UK, G, AUS)	
△T701	1-426-728-21	TRANSFORMER, POWER (E)	
VFD901	1-517-163-11	INDICATOR TUBE, FLUORESCENT	

ACCESSORIES & PACKING MATERIALS *****			
	1-551-734-11	CORD, CONNECTION	
	3-798-436-11	MANUAL, INSTRUCTION (AEP) (ENGLISH/FRENCH/SPANISH/PORTUGUESE)	
	3-798-436-21	MANUAL, INSTRUCTION (UK, AUS, US) (ENGLISH)	
	3-798-436-41	MANUAL, INSTRUCTION (AEP) (GERMAN/DUTCH/SWEDISH/ITALIAN)	
	3-798-436-51	MANUAL, INSTRUCTION (G) (GERMAN)	
	3-798-436-61	MANUAL, INSTRUCTIO (E) (ENGLISH/FRENCH/SPANISH/CHINESE)	
*	3-907-887-01	CUSHION	
*	3-923-964-01	INDIVIDUAL CARTON (E, AUS)	
*	3-923-964-11	INDIVIDUAL CARTON (AEP, UK, G)	
*	3-923-964-21	INDIVIDUAL CARTON (US)	

HARDWARE LIST

#1	7-682-548-09	SCREW +BVTT 3×8 (S)
#2	7-682-548-04	SCREW +BVTT 3×8 (S)
#3	7-621-773-95	SCREW +BVTT 2.6×6 (S)
#4	7-685-134-19	SCREW +PTPWH (2.6×8)
#5	7-685-534-19	SCREW +BTP 2.6×8 TYPE2 N-S (E)
#6	7-621-772-10	SCREW +B 2×4
#7	7-627-556-08	SCREW +P 2.6×2.8
#8	7-621-775-00	SCREW +B 2.6×3

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.